

Security Patches:

BD Pyxis™ Anesthesia System 3500

December 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for December 2022. These patches were not found to adversely affect BD products and will be applied according to customers' service agreements.

Customers that maintain patches independent of BD automated delivery should ensure the validated patches are installed on their BD systems as the acting responsible entity in order to maintain the correct security posture of the system(s).

Microsoft® patches

Patch name	Description	Patch ID	Notes
2022-12 Security Monthly Quality Rollup for Windows 7 for x86-based Systems	<p>This cumulative security update contains improvements that are part of update KB5020000 (released November 8, 2022) and update KB5021651 (released November 17, 2022). This update also makes improvements for the following issues:</p> <p>By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.</p> <p>A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.</p>	KB5021291	Applicable on 3500 Anesthesia System and MS3500 Station
2022-12 Security Only Quality Update for Windows Embedded Standard 7 for x86-based Systems	<p>This update makes improvements for the following issues:</p> <ul style="list-style-type: none">By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022. <p>A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.</p>	KB5021288	Applicable on 3500 Anesthesia System and MS3500 Station

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Security Patches:

BD Pyxis™ Anesthesia System 4000

December 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for December 2022. These patches were not found to adversely affect BD products and will be applied according to customers' service agreements.

Customers that maintain patches independent of BD automated delivery should ensure the validated patches are installed on their BD systems as the acting responsible entity in order to maintain the correct security posture of the system(s).

Microsoft® patches

Patch name	Description	Patch ID	Notes
Windows Malicious Software Removal Tool x64 - v5.108	The Windows Malicious Software Removal Tool (MSRT) helps remove malicious software from computers.	KB890830	Applicable on MS 4000 Console and MS4000 Anesthesia and Station
2022-12 Cumulative Update for Windows 10 Version 1607 for x64-based Systems	<ul style="list-style-type: none">This update addresses the suspension of daylight saving time (DST) in the Republic of Fiji for this year.This update addresses security issues for your Windows operating system.	KB5021235	Applicable on MS4000 Anesthesia System and MS4000 Station
2022-12 Security Only Quality Update for Windows Embedded Standard 7 for x86-based Systems	<p>This update makes improvements for the following issues:</p> <ul style="list-style-type: none">By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022. <p>A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.</p>	KB5021288	Applicable on 3500/MS4000 Anesthesia System and MS3500 /MS4000 Station





2022-12 Security Monthly
Quality Rollup for
Windows 7 for x86-based
Systems

This cumulative security update contains improvements that are part of update KB5020000 (released November 8, 2022) and update KB5021651 (released November 17, 2022). This update also makes improvements for the following issues:

By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.

A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

[KB5021291](#)

Applicable on
3500/MS4000
Anesthesia
System and
MS3500 /MS4000
Station

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Security Patches: BD Pyxis CIISafe

December 2022

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Customers that maintain patches independent of BD automated delivery should ensure the validated patches are installed on their BD systems as the acting responsible entity in order to maintain the correct security posture of the system(s).

Microsoft® patches

Patch name	Description	Patch ID	Notes
2022-12 Security Monthly Quality Rollup for Windows Embedded Standard 7 for x64-based Systems	A security issue has been identified in a Microsoft software product that could affect your system. You can help protect your system by installing this update from Microsoft. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article. After you install this update, you may have to restart your system.	KB5021291	Applicable to CIISafe device.
2022-12 Security and Quality Rollup for .NET Framework 3.5.1, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8 for Windows Embedded Standard 7	A security issue has been identified in a Microsoft software product that could affect your system. You can help protect your system by installing this update from Microsoft. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article. After you install this update, you may have to restart your system.	KB5021091	Applicable to CIISafe device.
2022-12 Cumulative Update for Windows 10 Version 1607 for x64-based Systems	A security issue has been identified in a Microsoft software product that could affect your system. You can help protect your system by installing this update from Microsoft. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article. After you install this update, you may have to restart your system.	KB5021235	Applicable to CIISafe device.

2022-12 Cumulative Update for .NET Framework 4.8 for Windows 10 Version 1607 for x64.

A security issue has been identified in a Microsoft software product that could affect your system. You can help protect your system by installing this update from Microsoft. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article. After you install this update, you may have to restart your system.

[KB5020873](#)

Applicable to
CIISafe device.

2022-12 Security Only Quality Update for Windows Embedded Standard 7 for x64-based Systems

A security issue has been identified in a Microsoft software product that could affect your system. You can help protect your system by installing this update from Microsoft. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article. After you install this update, you may have to restart your system.

[KB5021288](#)

Applicable to
CIISafe device

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Security Patches:

BD Pyxis™ MedStation™ 3500

December 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for December 2022. These patches were not found to adversely affect BD products and will be applied according to customers' service agreements.

Customers that maintain patches independent of BD automated delivery should ensure the validated patches are installed on their BD systems as the acting responsible entity in order to maintain the correct security posture of the system(s).

Microsoft® patches

Patch name	Description	Patch ID	Notes
Windows Malicious Software Removal Tool - v5.108	The Windows Malicious Software Removal Tool (MSRT) helps remove malicious software from computers.	KB890830	Applicable on MS3500 and MS4000 Console
2022-12 Security and Quality Rollup for .NET Framework 2.0, 3.0, 4.6.2 for Windows Server 2008 SP2	This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system	KB5021094	Applicable on MS3500 and MS4000 Console
2022-12 Security Only Update for .NET Framework 2.0, 3.0, 4.6.2 for Windows Server 2008 SP2	This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system.	KB5021082	Applicable on MS3500 and MS4000 Console
2022-12 Security Monthly Quality Rollup for Windows Server 2008 for x86-based Systems	This cumulative security update contains improvements that are part of update KB5020019 (released November 8, 2022) and update KB5021657 (released November 17, 2022). This update also makes improvements for the following issues: <ul style="list-style-type: none">By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.	KB5021289	Applicable on MS3500 and MS4000 Console





- A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

2022-12 Security Only
Quality Update for
Windows Server 2008
for x86-based Systems

This update makes improvements for the following issues:

- By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.
- A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

[KB5021293](#)

Applicable on
MS3500 and MS
4000 Console

2022-12 Security Only
Quality Update for
Windows Embedded
Standard 7 for x86-
based Systems

This update makes improvements for the following issues:

- By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.
- A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

[KB5021288](#)

Applicable on
3500 Anesthesia
System and
MS3500 Station

2022-12 Security
Monthly Quality
Rollup for Windows 7
for x86-based Systems

This cumulative security update contains improvements that are part of update KB5020000 (released November 8, 2022) and update KB5021651 (released November 17, 2022). This update also makes improvements for the following issues:

By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.

A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

[KB5021291](#)

Applicable on
3500 Anesthesia
System and
MS3500 Station

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Security Patches:

BD Pyxis™ MedStation™ 4000

December 2022

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Microsoft® patches

Patch name	Description	Patch ID	Notes
Windows Malicious Software Removal Tool - v5.108	The Windows Malicious Software Removal Tool (MSRT) helps remove malicious software from computers.	KB890830	Applicable on MS3500 and MS 4000 Console
2022-12 Security and Quality Rollup for .NET Framework 2.0, 3.0, 4.6.2 for Windows Server 2008 SP2	This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system	KB5021094	Applicable on MS3500 and MS 4000 Console
2022-12 Security Only Update for .NET Framework 2.0, 3.0, 4.6.2 for Windows Server 2008 SP2	This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system.	KB5021082	Applicable on MS3500 and MS 4000 Console
2022-12 Security Monthly Quality Rollup for Windows Server 2008 for x86-based Systems	This cumulative security update contains improvements that are part of update KB5020019 (released November 8, 2022) and update KB5021657 (released November 17, 2022). This update also makes improvements for the following issues: <ul style="list-style-type: none">By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.	KB5021289	Applicable on MS3500 and MS 4000 Console



A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

2022-12 Security Only Quality Update for Windows Server 2008 for x86-based Systems

This update makes improvements for the following issues:

- By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.

[KB5021293](#)

Applicable on MS3500 and MS4000 Console

A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

2022-12 Security Only Quality Update for Windows Embedded Standard 7 for x86-based Systems

This update makes improvements for the following issues:

- By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.

[KB5021288](#)

Applicable on 3500/MS4000 Anesthesia System and MS3500 /MS4000 Station

A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

2022-12 Security Monthly Quality Rollup for Windows 7 for x86-based Systems

This cumulative security update contains improvements that are part of update KB5020000 (released November 8, 2022) and update KB5021651 (released November 17, 2022). This update also makes improvements for the following issues:

[KB5021291](#)

Applicable on 3500/MS4000 Anesthesia System and MS3500 /MS4000 Station

By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.

A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

Windows Malicious Software Removal Tool x64 - v5.108

The Windows Malicious Software Removal Tool (MSRT) helps remove malicious software from computers.

[KB890830](#)

Applicable on MS4000 Console and MS4000 Anesthesia and Station



2022-12 Cumulative Update for Windows Server 2016 for x64-based Systems

- This update addresses the suspension of daylight saving time (DST) in the Republic of Fiji for this year.
- This update addresses security issues for your Windows operating system.

[KB5021235](#)

Applicable on MS 4000 Console

2022-12 Security and Quality Rollup for .NET Framework 3.5.1, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8 for Windows Embedded Standard 7

This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system.

[KB5021091](#)

Applicable on MS 4000 Station

2022-12 Cumulative Update for Windows 10 Version 1607 for x64-based Systems

- This update addresses the suspension of daylight saving time (DST) in the Republic of Fiji for this year.
- This update addresses security issues for your Windows operating system.

[KB5021235](#)

Applicable on MS4000 Anesthesia System and MS4000 Station

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Security Patches:

Security Module

December 2022

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Microsoft® patches

Patch name	Description	Patch ID	Notes
Windows Malicious Software Removal Tool x64 - v5.108 (KB890830)	After the download, this tool runs one time to check your computer for infection by specific, prevalent malicious software (including Blaster, Sasser, and Mydoom) and helps remove any infection that is found. If an infection is found, the tool will display a status report the next time that you start your computer. A new version of the tool will be offered every month. If you want to manually run the tool on your computer, you can download a copy from the Microsoft Download Center, or you can run an online version from microsoft.com.	KB890830	Applicable on Security Module devices.
2022-12 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems (KB5021294)	This update also makes improvements for the following issues: <ul style="list-style-type: none">• By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.• A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.	KB5021294	Applicable on Security Module devices.
2022-12 Security and Quality Rollup for .NET Framework 3.5, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8 for Windows Server 2012 R2 for x64 (KB5021093)	This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system	KB5021093	Applicable on Security Module devices.

2022-12 Security Only Quality Update for Windows Server 2012 R2 for x64-based Systems (KB5021296)

This update makes improvements for the following issues:

- By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.
- A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

[KB5021296](#)

Applicable on Security Module devices.

2022-12 Security Only Update for .NET Framework 3.5, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8 for Windows Server 2012 R2 for x64 (KB5021081)

This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system.

[KB5021081](#)

Applicable on Security Module devices.

2022-12 Cumulative Update for Windows Server 2016 for x64-based Systems (KB5021235)

This security update includes quality improvements. When you install this KB:

- This update addresses a known issue that might affect the Local Security Authority Subsystem Service (LSASS.exe). It might leak memory on Windows domain controllers. This issue might occur when you install Windows updates dated November 8, 2022, or later.

[KB5021235](#)

Applicable on Security Module devices.

2022-12 Security and Quality Rollup for .NET Framework 3.5 for Windows Server 2012 R2 for x64 (KB5020862)

This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system

[KB5020862](#)

Applicable on Security Module devices.

2022-12 Security and Quality Rollup for .NET Framework 4.6.2, 4.7, 4.7.1, 4.7.2 for Windows Server 2012 R2 for x64 (KB5020868)

This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system.

[KB5020868](#)

Applicable on Security Module devices.

2022-12 Security Only Update for .NET Framework 3.5 for Windows Server 2012 R2 for x64 (KB5020897)

This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system.

[KB5020897](#)

Applicable on Security Module devices.

Security Patches: BD Pyxis™ IV Prep

December 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for December 2022. These patches were not found to adversely affect BD products and will be applied according to customers' service agreements.

Customers that maintain patches independent of BD automated delivery should ensure the validated patches are installed on their BD systems as the acting responsible entity in order to maintain the correct security posture of the system(s).

Microsoft® patches

Patch name	Description	Patch ID	Notes
Windows Malicious Software Removal Tool x64 - v5.108	After the download, this tool runs one time to check your computer for infection by specific, prevalent malicious software (including Blaster, Sasser, and Mydoom) and helps remove any infection that is found. If an infection is found, the tool will display a status report the next time that you start your computer. A new version of the tool will be offered every month. If you want to manually run the tool on your computer, you can download a copy from the Microsoft Download Center, or you can run an online version from microsoft.com. This tool is not a replacement for an antivirus product. To help protect your computer, you should use an antivirus product.	KB890830	Applicable on Cato
2022-12 Cumulative Update for Windows Server 2016 for x64-based Systems	A security issue has been identified in a Microsoft software product that could affect your system. You can help protect your system by installing this update from Microsoft. For a complete listing of the issues that are included in this update.	KB5021235	Applicable on Cato





2022-12 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems	A security issue has been identified in a Microsoft software product that could affect your system. You can help protect your system by installing this update from Microsoft. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article. After you install this update, you may have to restart your system.	KB5021294	Applicable on Cato
2022-12 Security and Quality Rollup for .NET Framework 3.5, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8 for Windows Server 2012 R2 for x64	A security issue has been identified in a Microsoft software product that could affect your system. You can help protect your system by installing this update from Microsoft. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article. After you install this update, you may have to restart your system	KB5021093	Applicable on Cato
2022-12 Security Only Quality Update for Windows Server 2012 R2 for x64-based Systems	A security issue has been identified in a Microsoft software product that could affect your system. You can help protect your system by installing this update from Microsoft. For a complete listing of the issues that are included in this update.	KB5021296	Applicable on Cato
2022-12 Security Only Update for .NET Framework 3.5, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8 for Windows Server 2012 R2 for x64	A security issue has been identified in a Microsoft software product that could affect your system. You can help protect your system by installing this update from Microsoft. For a complete listing of the issues that are included in this update.	KB5021081	Applicable on Cato

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Security Patches: BD Pyxis Connect

December 2022

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Customers that maintain patches independent of BD automated delivery should ensure the validated patches are installed on their BD systems as the acting responsible entity in order to maintain the correct security posture of the system(s).

Microsoft® patches

Patch name	Description	Patch ID	Notes
2022-12 Cumulative Update for Windows 10 Version 21H2 for x64-based Systems	This update addresses an issue that affects the Camera app. The app stops responding when memory is low.	KB5021233	N/A
2022-12 Cumulative Update for .NET Framework 3.5, 4.8 and 4.8.1 for Windows 10 Version 22H2 for x64	This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system.	KB5021089	N/A
Windows Malicious Software Removal Tool x64 - v5.107	Windows Malicious Software Removal Tool (MSRT) helps keep Windows computers free from prevalent malware. MSRT finds and removes threats and reverses the changes made by these threats. MSRT is generally released monthly as part of Windows Update or as a standalone tool.	KB890830	N/A
2022-12 Cumulative Update for .NET Framework 4.8 for Windows Server 2016 for x64	This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system.	KB5020873	N/A
2022-12 Cumulative Update for Windows Server 2016 for x64-based Systems	This update addresses the following: <ul style="list-style-type: none">- Suspension of daylight-saving time (DST) in the Republic of Fiji for this year.- This update addresses security issues for your Windows operating system.	KB5021235	N/A



<p>2022-12 Security Only Update for .NET Framework 3.5, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8 for Windows Server 2012 R2 for x64</p>	<p>This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system.</p>	<p>KB5021081</p>	<p>N/A</p>
<p>2022-12 Security Only Quality Update for Windows Server 2012 R2 for x64-based Systems</p>	<p>This update makes improvements for the following issues:</p> <ul style="list-style-type: none"> - By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022. - A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later. 	<p>KB5021296</p>	<p>N/A</p>
<p>2022-12 Security and Quality Rollup for .NET Framework 3.5, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8 for Windows Server 2012 R2 for x64</p>	<p>This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system.</p>	<p>KB5021093</p>	<p>N/A</p>
<p>2022-12 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems</p>	<p>This cumulative security update includes improvements that are part of update KB5020023 (released November 8, 2022) and update KB5021653 (released November 17, 2022). This update also makes improvements for the following issues:</p> <ul style="list-style-type: none"> - By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022. - A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later. 	<p>KB5021294</p>	<p>N/A</p>

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Security Patches: BD Pharmogistics

December 2022

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Microsoft® patches

Patch name	Description	Patch ID	Notes
Windows Malicious Software Removal Tool x64	After the download, this tool runs one time to check your computer for infection by specific, prevalent malicious software (including Blaster, Sasser, and Mydoom) and helps remove any infection that is found. If an infection is found, the tool will display a status report the next time that you start your computer. A new version of the tool will be offered every month. If you want to manually run the tool on your computer, you can download a copy from the Microsoft Download Center, or you can run an online version from microsoft.com. This tool is not a replacement for an antivirus product. To help protect your computer, you should use an antivirus product.	KB890830	Applicable on PLX, CII Safe and Infusion.
2022-12 Security and Quality Rollup for .NET Framework 3.5, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8 for Windows Server 2012 R2 for x64 (KB5021093)	Security Improvements This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system. For more information please see CVE-2022-41089.	KB5021093	N/A



2022-12 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems (KB5021294)

Last Modified: 12/13/2022

This cumulative security update includes improvements that are part of update KB5020023 (released November 8, 2022) and update KB5021653 (released November 17, 2022). This update also makes improvements for the following issues:

By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.

A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

[KB5021294](#)

N/A

2022-12 Security Only Quality Update for Windows Server 2008 R2 for x64-based Systems (KB5021288)

Last Modified: 12/13/2022

This update makes improvements for the following issues:

By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.

A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

[KB5021288](#)

N/A

2022-12 Security Only Update for .NET Framework 3.5.1, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8 for Windows Server 2008 R2 for x64 (KB5021079)

Last Modified: 12/13/2022

This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system. For more information please see CVE-2022-41089.

[KB5021079](#)

N/A



2022-12 Security and Quality Rollup for .NET Framework 3.5.1, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8 for Windows Server 2008 R2 for x64 (KB5021091)
Last Modified: 12/13/2022

This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system. For more information please see CVE-2022-41089.

[KB5021091](#)

N/A

2022-12 Cumulative Update for Windows Server 2016 for x64-based Systems (KB5021235)
Last Modified: 12/13/2022

This update addresses a known issue that might affect the Local Security Authority Subsystem Service (LSASS.exe). It might leak memory on Windows domain controllers. This issue might occur when you install Windows updates dated November 8, 2022, or later.

[KB5021235](#)

N/A

2022-12 Cumulative Update for Windows 10 Version 21H1 for x64-based Systems (KB5021233)
Last Modified: 12/13/2022

Windows 10 servicing stack update - 19042.2300, 19043.2300, 19044.2300, and 19045.2300

This update makes quality improvements to the servicing stack, which is the component that installs Windows updates. Servicing stack updates (SSU) ensure that you have a robust and reliable servicing stack so that your devices can receive and install Microsoft updates.

[KB5021233](#)

N/A



2022-12 Cumulative Update for .NET Framework 3.5, 4.8 and 4.8.1 for Windows 10 Version 21H2 for x64 (KB5021088)
Last Modified: 12/13/2022

This article describes the Cumulative Update for 3.5, 4.8 and 4.8.1 for Windows 10 Version 21H2.

Security Improvements

This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system. For more information please see CVE-2022-41089.

[KB5021088](#)

N/A

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Security Patches:

PARx

Dec 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for Dec 2022. These patches were not found to adversely affect BD products and will be applied according to customers' service agreements.

Customers that maintain patches independent of BD automated delivery should ensure the validated patches are installed on their BD systems as the acting responsible entity in order to maintain the correct security posture of the system(s).

Microsoft® patches

Patch name	Description	Patch ID	Notes
Windows Malicious Software Removal Tool x64 - v5.107	Windows Malicious Software Removal Tool (MSRT) 5.83 helps remove malicious software from computers running Windows 10, Windows 8.1, Windows Server 2012 R2, Windows 8, Windows Server 2012, Windows 7, or Windows Server 2008.	KB890830	Applicable on ParX
2022-12 Cumulative Update for Windows 10 Version 1607 for x64-based Systems	This security update includes quality improvements. When you install this KB: This update addresses a known issue that might affect the Local Security Authority Subsystem Service (LSASS.exe). It might leak memory on Windows domain controllers. This issue might occur when you install Windows updates dated November 8, 2022, or later. If you installed earlier updates, only the new updates contained in this package will be downloaded and installed on your device. For more information about security vulnerabilities, please refer to the new Security Update Guide website and the December 2022 Security Updates.	KB5021235	Applicable on ParX

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Security Patches:

TIM

Dec 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for Dec 2022. These patches were not found to adversely affect BD products and will be applied according to customers' service agreements.

Customers that maintain patches independent of BD automated delivery should ensure the validated patches are installed on their BD systems as the acting responsible entity in order to maintain the correct security posture of the system(s).

Microsoft® patches

Patch name	Description	Patch ID	Notes
2022-12 Cumulative Update for Windows Server 2016 for x64-based Systems	<p>This security update includes quality improvements.</p> <p>When you install this KB:</p> <p>This update addresses a known issue that might affect the Local Security Authority Subsystem Service (LSASS.exe). It might leak memory on Windows domain controllers. This issue might occur when you install Windows updates dated November 8, 2022, or later.</p>	KB5021235	Applicable on TIM.
2022-12 Cumulative Update for .NET Framework 4.8 for Windows Server 2016 for x64	<p>This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system. For more information please see CVE-2022-41089.</p> <p>Quality and Reliability Improvements</p> <p>There are no new Quality and Reliability Improvements in this update.</p>	KB5020873	Applicable on TIM.

Windows Malicious Software Removal Tool x64 - v5.108

The Windows Malicious Software Removal Tool (MSRT) helps remove malicious software from computers that are running any of the following operating systems:

[KB890830](#)

Applicable on TIM.

Windows 10

Windows Server 2019

Windows Server 2016

Windows 8.1

Windows Server 2012 R2

Windows Server 2012

Windows Server 2008 R2

Windows 7

Windows Server 2008

Microsoft releases the MSRT on a monthly cadence as part of Windows Update or as a standalone tool. Use this tool to find and remove specific prevalent threats and reverse the changes they have made (see covered malware families). For comprehensive malware detection and removal, consider using Windows Defender Offline or Microsoft Safety Scanner.

This article contains information about how the tool differs from an antivirus or antimalware product, how you can download and run the tool, what happens when the tool finds malware, and tool release information. It also includes information for the administrators and advanced users, including information about supported command-line switches.

2022-12 Security Only Update for .NET Framework 3.5, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8 for Windows Server 2012 R2 for x64

This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system. For more information please see CVE-2022-41089.

[KB5021081](#)

Applicable on TIM.



2022-12 Security Only
Quality Update for
Windows Server 2012 R2
for x64-based Systems

This update makes improvements for the following issues:

[KB5021296](#)

Applicable on TIM.

By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.

A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

For more information about the resolved security vulnerabilities, please refer to the Deployments | Security Update Guide and the December 2022 Security Updates.

2022-12 Security and
Quality Rollup for .NET
Framework 3.5, 4.6.2, 4.7,
4.7.1, 4.7.2, 4.8 for
Windows Server 2012 R2
for x64

This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system. For more information please see CVE-2022-41089.

[KB5021093](#)

Applicable on TIM.

Quality and Reliability Improvements

For a list of improvements that were released with this update, please see the article links in the Additional Information section of this article.

2022-12 Security Monthly
Quality Rollup for
Windows Server 2012 R2
for x64-based Systems

This cumulative security update includes improvements that are part of update KB5020023 (released November 8, 2022) and update KB5021653 (released November 17, 2022). This update also makes improvements for the following issues:

[KB5021294](#) Applicable on TIM.

By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.

A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

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Security Patches: BD Pyxis™ Supply

December 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for December 2022. These patches were not found to adversely affect BD products and will be applied according to customers' service agreements.

Customers that maintain patches independent of BD automated delivery should ensure the validated patches are installed on their BD systems as the acting responsible entity in order to maintain the correct security posture of the system(s).

Microsoft® patches

Patch name	Description	Patch ID	Notes
2022-12 Security and Quality Rollup for .NET Framework 2.0, 3.0, 4.6.2 for Windows Server 2008 SP2 (KB5021094)	This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system. For more information please see CVE-2022-41089.	KB5021094	Applicable on Supply.
2022-12 Security Monthly Quality Rollup for Windows Server 2008 for x86-based Systems (KB5021289)	This cumulative security update contains improvements that are part of update KB5020019 (released November 8, 2022) and update KB5021657 (released November 17, 2022). This update also makes improvements for the following issues: <ul style="list-style-type: none">• By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.• A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.	KB5021289	Applicable on Supply.

<p>2022-12 Security Only Quality Update for Windows Server 2008 for x86-based Systems (KB5021293)</p>	<p>This update makes improvements for the following issues:</p> <ul style="list-style-type: none"> • By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022. • A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later. 	<p>KB5021293</p>	<p>Applicable on Supply.</p>
<p>2022-12 Security Only Update for .NET Framework 2.0, 3.0, 4.6.2 for Windows Server 2008 SP2 (KB5021082)</p>	<p>This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system. For more information please see CVE-2022-41089.</p>	<p>KB5021082</p>	<p>Applicable on Supply.</p>
<p>2022-12 Security Only Update for .NET Framework 3.5, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8 for Windows Server 2012 R2 for x64 (KB5021081)</p>	<p>This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system. For more information please see CVE-2022-41089.</p>	<p>KB5021081</p>	<p>Applicable on Supply.</p>
<p>2022-12 Security Only Quality Update for Windows Server 2012 R2 for x64-based Systems (KB5021296)</p>	<p>This update makes improvements for the following issues:</p> <ul style="list-style-type: none"> • By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022. • A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later. 	<p>KB5021296</p>	<p>Applicable on Supply.</p>
<p>2022-12 Security and Quality Rollup for .NET Framework 3.5, 4.6.2, 4.7, 4.7.1, 4.7.2, 4.8 for Windows Server 2012 R2 for x64 (KB5021093)</p>	<p>This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system. For more information please see CVE-2022-41089.</p>	<p>KB5021093</p>	<p>Applicable on Supply.</p>
<p>2022-12 Security Monthly Quality Rollup for Windows Server 2012 R2</p>	<p>This cumulative security update includes improvements that are part of update KB5020023 (released November 8, 2022) and update KB5021653 (released November 17, 2022). This update also makes improvements for the following issues:</p>	<p>KB5021294</p>	<p>Applicable on Supply.</p>

for x64-based Systems
(KB5021294)

- By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.
- A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

2022-12 Security Monthly
Quality Rollup for
Windows Embedded
Standard 7 for x86-based
Systems (KB5021291)

This cumulative security update contains improvements that are part of update KB5020000 (released November 8, 2022) and update KB5021651 (released November 17, 2022). This update also makes improvements for the following issues:

[KB5021291](#)

Applicable on
Supply.

- By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.
- A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

2022-12 Security Only
Quality Update for
Windows Embedded
Standard 7 for x86-based
Systems (KB5021288)

This update makes improvements for the following issues:

[KB5021288](#)

Applicable on
Supply.

- By order of the Fijian government, Fiji will not observe daylight saving time (DST) in 2022. Therefore, clocks do not change by an hour at 02:00 on November 13, 2022.
- A memory leak in the Local Security Authority Subsystem Service (LSASS.exe) occurs on Windows domain controllers. This issue is known to occur after installing Windows updates dated November 8, 2022, or later.

2022-12 Cumulative
Update for Windows
Server 2016 for x64-based
Systems (KB5021235)

This security update includes quality improvements. When you install this KB:

[KB5021235](#)

Applicable on
Supply.

- This update addresses a known issue that might affect the Local Security Authority Subsystem Service (LSASS.exe). It might leak memory on Windows domain controllers. This issue might occur when you install Windows updates dated November 8, 2022, or later.

<p>2022-12 Cumulative Update for Windows Server 2019 for x64-based Systems (KB5021237)</p>	<p>This security update includes improvements. When you install this KB:</p> <ul style="list-style-type: none"> • This update addresses an issue that might affect applications that run on the Windows Lock Down Policy (WLDP). They might stop working. • This update addresses an issue that affects remote networks. This issue stops you from reconnecting to them using DirectAccess. • This update addresses a known issue that might affect the Local Security Authority Subsystem Service (LSASS.exe). It might leak memory on Windows domain controllers. This issue might occur when you install Windows updates dated November 8, 2022, or later. • This update addresses a known issue that affects Direct Access. The issue might stop you from reconnecting to it after temporarily losing network connectivity. The issue might also occur when you switch between Wi-Fi networks or access points. 	<p>KB5021237</p>	<p>Applicable on Supply.</p>
<p>2022-12 Cumulative Update for Windows 10 Version 1809 for x64-based Systems (KB5021237)</p>	<p>This security update includes improvements. When you install this KB:</p> <ul style="list-style-type: none"> • This update addresses an issue that might affect applications that run on the Windows Lock Down Policy (WLDP). They might stop working. • This update addresses an issue that affects remote networks. This issue stops you from reconnecting to them using DirectAccess. • This update addresses a known issue that might affect the Local Security Authority Subsystem Service (LSASS.exe). It might leak memory on Windows domain controllers. This issue might occur when you install Windows updates dated November 8, 2022, or later. • This update addresses a known issue that affects Direct Access. The issue might stop you from reconnecting to it after temporarily losing network connectivity. The issue might also occur when you switch between Wi-Fi networks or access points. 	<p>KB5021237</p>	<p>Applicable on Supply.</p>
<p>2022-12 Cumulative Update for .NET Framework 3.5, 4.7.2 and 4.8 for Windows Server 2019 for x64 (KB5021085)</p>	<p>This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system. For more information please see CVE-2022-41089.</p>	<p>KB5021085</p>	<p>Applicable on Supply.</p>

2022-12 Cumulative Update for .NET Framework 3.5, 4.7.2 and 4.8 for Windows 10 Version 1809 for x64 (KB5021085)

This security update addresses a vulnerability where restricted mode is triggered for the parsing of XPS files, preventing gadget chains which could allow remote code execution on an affected system. For more information please see CVE-2022-41089.

[KB5021085](#)

Applicable on Supply.

Windows Malicious Software Removal Tool x64 - v5.108

The Windows Malicious Software Removal Tool (MSRT) helps remove malicious software from computers. Microsoft releases the MSRT on a monthly cadence as part of Windows Update or as a standalone tool. Use this tool to find and remove specific prevalent threats and reverse the changes they have made.

[KB890830](#)

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