

Security Patches:

BD Pyxis™ Anesthesia Station 4000

October 2023

BD has identified patches from Microsoft® that have been identified as critical or security related for October 2023. 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 - v5.118	The Windows Malicious Software Removal Tool (MSRT) helps remove malicious software from computers.	KB890830	N/A
2023-10 Cumulative Update for Windows Server 2016 for x64-based Systems	<ul style="list-style-type: none">This update supports daylight saving time (DST) changes in Greenland.This update addresses security issues for your Windows operating system.	KB5031362	N/A
2023-10 Cumulative Update for Windows 10 Version 1607 for x64-based Systems	This security update includes quality improvements. When you install this KB: <ul style="list-style-type: none">New! IE mode and Microsoft Edge can now share cookies. To learn more, see Cookie sharing between Microsoft Edge and Internet Explorer.New! This update completes the work to comply with the GB18030-2022 requirements. It removes and remaps characters for Microsoft Wubi input and Microsoft Pinyin U-mode input. You can no longer enter character codepoints that are not supported. All the required codepoints are up to date.This update changes the spelling of Ukraine's capital from Kiev to Kyiv.	KB5031362	N/A
2023-10 Security Only Quality Update for Windows Embedded Standard 7 for x86-based Systems	Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication.	KB5031441	N/A

2023-10 Servicing Stack Update for Windows Embedded Standard 7 for x86-based Systems	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information.	KB5031658	N/A
2023-10 Security Monthly Quality Rollup for Windows Embedded Standard 7 for x86-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	KB5031408	N/A
2023-10 Cumulative Security Update for Internet Explorer 11 for Windows Embedded Standard 7 for x86-based systems	This security update resolves vulnerabilities in Internet Explorer.	KB5031355	N/A

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Security Patches: BD Pyxis™ C^{II}Safe

October 2023

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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
2023-10 Servicing Stack Update for Windows Embedded Standard 7 for x86-based Systems (KB5031658)	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031658	N/A
2023-10 Security Monthly Quality Rollup for Windows Embedded Standard 7 for x64-based Systems (KB5031408)	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.	KB5031408	N/A
2023-10 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 (KB5031226)	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031226	N/A

<p>2023-10 Cumulative Update for Windows Server 2016 for x64-based Systems (KB5031362)</p>	<p>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.</p>	<p>KB5031362</p>	<p>N/A</p>
<p>Windows Malicious Software Removal Tool x64 - v5.117 (KB890830)</p>	<p>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.</p>	<p>KB890830</p>	<p>N/A</p>
<p>2023-10 Cumulative Update for .NET Framework 4.8 for Windows Server 2016 for x64 (KB5031000)</p>	<p>Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.</p>	<p>KB5031000</p>	<p>N/A</p>

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Security Patches:

BD Pyxis™ MedStation™ 4000

October 2023

BD has identified patches from Microsoft® that have been identified as critical or security related for October 2023. 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 - v5.118	The Windows Malicious Software Removal Tool (MSRT) helps remove malicious software from computers.	KB890830	N/A
2023-10 Cumulative Update for Windows Server 2016 for x64-based Systems	<ul style="list-style-type: none">This update supports daylight saving time (DST) changes in Greenland.This update addresses security issues for your Windows operating system.	KB5031362	N/A
Windows Malicious Software Removal Tool - v5.118	The Windows Malicious Software Removal Tool (MSRT) helps remove malicious software from computers.	KB890830	N/A
2023-10 Cumulative Update for Windows 10 Version 1607 for x64-based Systems	This security update includes quality improvements. When you install this KB: <ul style="list-style-type: none">New! IE mode and Microsoft Edge can now share cookies. To learn more, see Cookie sharing between Microsoft Edge and Internet Explorer.New! This update completes the work to comply with the GB18030-2022 requirements. It removes and remaps characters for Microsoft Wubi input and Microsoft Pinyin U-mode input. You can no longer enter character codepoints that are not supported. All the required codepoints are up to date.This update changes the spelling of Ukraine's capital from Kiev to Kyiv.	KB5031362	N/A
2023-10 Security Only Quality Update for Windows Embedded Standard 7 for x86-based Systems	Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication.	KB5031441	N/A

2023-10 Security Monthly Quality Rollup for Windows Server 2008 for x86-based Systems	<p>This cumulative security update contains improvements that are part of update KB5030271 (released September 12, 2023). This update also makes improvements for the following issues:</p> <ul style="list-style-type: none"> ▪ Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication. ▪ This update includes daylight saving time (DST) changes for Greenland. For more information, see the Daylight Saving Time & Time Zone Blog. 	KB5031416	N/A
2023-10 Servicing Stack Update for Windows Server 2008 for x86-based Systems	This update makes quality improvements to the servicing stack, which is the component that installs Windows updates. Servicing stack updates (SSU) make sure that you have a robust and reliable servicing stack so that your devices can receive and install Microsoft updates.	KB5031659	N/A
2023-10 Servicing Stack Update for Windows Embedded Standard 7 for x86-based Systems	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information.	KB5031658	N/A
2023-10 Security Monthly Quality Rollup for Windows Embedded Standard 7 for x86-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	KB5031408	N/A
2023-10 Cumulative Security Update for Internet Explorer 11 for Windows Embedded Standard 7 for x86-based systems	This security update resolves vulnerabilities in Internet Explorer.	KB5031355	N/A
2023-10 Security Only Quality Update for Windows Server 2008 for x86-based Systems	<p>This update makes improvements for the following issues:</p> <ul style="list-style-type: none"> ▪ Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication. ▪ This update includes daylight saving time (DST) changes for Greenland. For more information, see the Daylight Saving Time & Time Zone Blog. 	KB5031411	N/A

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Security Patches: Security Module

October 2023

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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
Windows Malicious Software Removal Tool x64 - v5.118 (KB890830)	This tool is used to find and remove specific prevalent threats and reverse the changes they have made. If malicious software has modified (infected) files on the computer, the tool prompts the user to remove the malicious software from those files. If the malicious software has modified browser settings, the homepage may be changed automatically to a page that gives user directions on how to restore these settings.	KB890830	N/A
2023-10 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 (KB5031228)	This update is cumulative and contains all previously released security improvements i.e. KB5029915, KB5031008 and KB5031003.	KB5031228	N/A
2023-10 Security Only Quality Update for Windows Server 2012 R2 for x64-based Systems (KB5031407)	This update Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication and this update also includes daylight saving time (DST) changes for Ukraine and Greenland.	KB5031407	N/A
2023-10 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems (KB5031419)	This cumulative security update includes improvements that are part of update KB5030269. This update Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication and this update also includes daylight saving time (DST) changes for Ukraine and Greenland.	KB5031419	N/A



2023-10 Cumulative Security Update for Internet Explorer 11 for Windows Server 2012 R2 for x64-based systems (KB5031355)

A security issue has been identified in a Microsoft software product that could affect the system. User can help protect his/her system by installing this update from Microsoft. This security update resolves vulnerabilities in Internet Explorer.

[KB5031355](#) N/A

2023-10 Cumulative Update for Windows Server 2016 for x64-based Systems (KB5031362)

This security update includes quality improvements:

- IE mode and Microsoft Edge can now share cookies.
- This update completes the work to comply with the GB18030-2022 requirements. It removes and remaps characters for Microsoft Wubi input and Microsoft Pinyin U-mode input. You can no longer enter character codepoints that are not supported. All the required codepoints are up to date.
- This update changes the spelling of Ukraine's capital from Kiev to Kyiv.
- This update addresses an issue that affects external binding. It fails. This occurs after you install Windows updates dated May 2023 or later. Because of this, there are issues that affect LDAP queries and authentication.

[KB5031362](#) N/A

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Security Patches: BD Pyxis™ IV Prep

October 2023

BD has identified patches from Microsoft® that have been identified as critical or security related for October 2023. 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
2023-10 Cumulative Security Update for Internet Explorer 11 for Windows Server 2012 R2 for x64-based systems (KB5031355)	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.	KB5031355	N/A
Windows Malicious Software Removal Tool x64 - v5.118 (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. This tool is not a replacement for an antivirus product. To help protect your computer, you should use an antivirus product.	KB890830	N/A

<p>2023-10 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems (KB5031419)</p>	<p>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.</p>	<p>KB5031419</p>	<p>N/A</p>
<p>2023-10 Security Only Quality Update for Windows Server 2012 R2 for x64-based Systems (KB5031407)</p>	<p>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.</p>	<p>KB5031407</p>	<p>N/A</p>
<p>2023-10 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 (KB5031228)</p>	<p>Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.</p>	<p>KB5031228</p>	<p>N/A</p>
<p>Security Update for SQL Server 2014 Service Pack 3 GDR (KB5029184)</p>	<p>Security issues have been identified in the SQL Server 2014 Service Pack 3 GDR that could allow an attacker to compromise your system and gain control over it. You can help protect your computer by installing this update from Microsoft. After you install this item, you may have to restart your computer.</p>	<p>KB5029184</p>	<p>N/A</p>
<p>2023-10 Cumulative Update for Windows Server 2016 for x64-based Systems (KB5031362)</p>	<p>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.</p>	<p>KB5031362</p>	<p>N/A</p>

2023-09 Cumulative Update for Windows Server 2016 for x64-based Systems (KB5030213)	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.	KB5030213	N/A
2023-09 Servicing Stack Update for Windows Server 2016 for x64-based Systems (KB5030504)	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5030504	N/A

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Security Patches: BD Pyxis Connect

October 2023

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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
2023-10 Cumulative Update for Windows Server 2016 for x64-based Systems (KB5031362)	<p>This security update includes quality improvements. When you install this KB:</p> <ul style="list-style-type: none">- IE mode and Microsoft Edge can now share cookies. To learn more, see Cookie sharing between Microsoft Edge and Internet Explorer.- This update completes the work to comply with the GB18030-2022 requirements. It removes and remaps characters for Microsoft Wubi input and Microsoft Pinyin U-mode input. You can no longer enter character codepoints that are not supported. All the required codepoints are up to date.- This update changes the spelling of Ukraine's capital from Kiev to Kyiv.- This update addresses an issue that affects external binding. It fails. This occurs after you install Windows updates dated May 2023 or later. Because of this, there are issues that affect LDAP queries and authentication.	KB5031362	N/A
Security Update for SQL Server 2016 Service Pack 3 GDR (KB5021129)	<p>This security update contains four fixes and resolves the following vulnerabilities:</p> <ul style="list-style-type: none">• CVE-2023-21528 - Microsoft SQL Server Remote Code Execution Vulnerability• CVE-2023-21704 - Microsoft ODBC Driver for SQL Server Remote Code Execution Vulnerability• CVE-2023-21705 - Microsoft SQL Server Remote Code Execution Vulnerability	KB5021129	N/A

	<ul style="list-style-type: none"> • CVE-2023-21713 - Microsoft SQL Server Remote Code Execution Vulnerability • CVE-2023-21718 - Microsoft SQL ODBC Driver Remote 		
Windows Malicious Software Removal Tool x64 - v5.118 (KB890830)	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
2023-10 Cumulative Update for .NET Framework 4.8 for Windows Server 2016 for x64 (KB5031000)	There are no new security improvements in this release. This update is cumulative and contains all previously released security improvements..	KB5031000	N/A
2023-10 Cumulative Security Update for Internet Explorer 11 for Windows Server 2012 R2 for x64-based systems (KB5031355)	<p>This security update resolves vulnerabilities in Internet Explorer. This update applies to the following:</p> <ul style="list-style-type: none"> • Internet Explorer 11 on Windows Server 2012 R2 • Internet Explorer 11 on Windows Server 2012 • Internet Explorer 11 on Windows Server 2008 R2 SP1 • Internet Explorer 9 on Windows Server 2008 SP2 	KB5031355	N/A
2023-10 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems (KB5031419)	<p>This cumulative security update includes improvements that are part of update KB5030269 (released September 12, 2023). This update also makes improvements for the following issues:</p> <ul style="list-style-type: none"> • Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication. • This update includes daylight saving time (DST) changes for Ukraine and Greenland. 	KB5031419	N/A

<p>2023-10 Security Only Quality Update for Windows Server 2012 R2 for x64-based Systems (KB5031407)</p>	<p>This update makes improvements for the following issues:</p> <ul style="list-style-type: none"> • Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication. • This update includes daylight saving time (DST) changes for Ukraine and Greenland. 	<p>KB5031407</p>	<p>N/A</p>
<p>2023-10 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 (KB5031228)</p>	<p>There are no new security improvements in this release. This update is cumulative and contains all previously released security improvements.</p>	<p>KB5031228</p>	<p>N/A</p>
<p>2023-10 Cumulative Update for Windows 10 Version 22H2 for x64-based Systems (KB5031356)</p>	<p>This update addresses security issues for your Windows operating system. It 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.</p>	<p>KB5031356</p>	<p>N/A</p>

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Security Patches: BD Pyxis™ Logistics

October 2023

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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
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	N/A

<p>2023-10 Cumulative Update for .NET Framework 3.5, 4.7.2 and 4.8 for Windows Server 2019 for x64 (KB5031222) Last Modified: 10/10/2023</p>	<p>Summary This article describes the security and Cumulative Update for 3.5, 4.7.2 and 4.8 for Windows 10, version 1809 and Windows Server 2019. The following articles contain additional information about this update as it relates to individual product versions. 5031005 Description of the Cumulative Update for .NET Framework 3.5 and 4.7.2 for Windows 10, version 1809 and Windows Server 2019 (KB5031005) 5031010 Description of the Cumulative Update for .NET Framework 3.5 and 4.8 for Windows 10, version 1809 and Windows Server 2019 (KB5031010)</p>	<p>KB5031222</p>	<p>N/A</p>
<p>2023-10 Cumulative Update for Windows Server 2019 for x64-based Systems (KB5031361) Last Modified: 10/10/2023</p>	<p>Windows 10 servicing stack update - 17763.4965 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.</p>	<p>KB5031361</p>	<p>N/A</p>
<p>Security Update for SQL Server 2019 RTM CU (KB5029378) Last Modified: 10/10/2023</p>	<p>Summary This security update contains a fix and resolves vulnerabilities. To learn more about the vulnerabilities, see the following security advisories:</p> <p>CVE-2023-36728 - Microsoft SQL Server Denial of Service Vulnerability</p> <p>CVE-2023-36417 - Microsoft SQL OLE DB Remote Code Execution Vulnerability</p> <p>CVE-2023-36785 - Microsoft SQL ODBC Driver Remote Code Execution Vulnerability</p> <p>CVE-2023-36420 - Microsoft SQL ODBC Driver Remote Code Execution Vulnerability</p> <p>CVE-2023-36730 - Microsoft SQL ODBC Driver Remote Code Execution Vulnerability</p>	<p>KB5029378</p>	<p>N/A</p>

<p>2023-10 Cumulative Update for Windows Server 2016 for x64-based Systems (KB5031362) Last Modified: 10/10/2023</p>	<p>Highlights This update supports daylight saving time (DST) changes in Greenland.</p> <p>This update addresses security issues for your Windows operating system.</p>	<p>KB5031362</p>	<p>N/A</p>
<p>2023-10 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems (KB5031419) Last Modified: 10/10/2023</p>	<p>Improvements This cumulative security update includes improvements that are part of update KB5030269 (released September 12, 2023). This update also makes improvements for the following issues:</p> <p>Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication.</p> <p>This update includes daylight saving time (DST) changes for Ukraine and Greenland. For more information, see the Daylight Saving Time & Time Zone Blog.</p>	<p>KB5031419</p>	<p>N/A</p>
<p>2023-10 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 (KB5031228) Last Modified: 10/10/2023</p>	<p>Additional information about this update The following articles contain additional information about this update as it relates to individual product versions.</p> <p>5029915 Description of the Security and Quality Rollup for .NET Framework 3.5 for Windows Server 2012 R2 (KB5029915)</p> <p>5031008 Description of the Security and Quality Rollup for .NET Framework 4.6.2, 4.7, 4.7.1, 4.7.2 for Windows Server 2012 R2 (KB5031008)</p> <p>5031003 Description of the Security and Quality Rollup for .NET Framework 4.8 for Windows Server 2012 R2 (KB5031003)</p>	<p>KB5031228</p>	<p>N/A</p>

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Security Patches: BD Pyxis™ PARx™

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Microsoft® patches

Patch name	Description	Patch ID	Notes
2023-10 Cumulative Update for Windows 10 Version 1607 for x86-based Systems	This update completes the work to comply with the GB18030-2022 requirements. It removes and remaps characters for Microsoft Wubi input and Microsoft Pinyin U-mode input. You can no longer enter character codepoints that are not supported. All the required codepoints are up to date. This update changes the spelling of Ukraine's capital from Kiev to Kyiv. This update addresses an issue that affects external binding. It fails. This occurs after you install Windows updates dated May 2023 or later. Because of this, there are issues that affect LDAP queries and authentication.	KB5031362	N/A
2023-10 Cumulative Security Update for Internet Explorer 11 for Windows Embedded Standard 7 for x86-based systems	The improvements that are included in this Internet Explorer update are also included in the October 2023 Monthly Rollup. Installing either this Internet Explorer update or the Monthly Rollup installs the same improvements. This update is not applicable for installation on a device on which the Monthly Rollup from October 2023 (or a later month) is already installed. This is because that update contains all the same improvements that are included in this Internet Explorer update.	KB5031355	N/A

2023-10 Security Monthly Quality Rollup for Windows Embedded Standard 7 for x86-based Systems	This cumulative security update contains improvements that are part of update KB5030265 (released September 12, 2023). This update also makes improvements for the following issues: Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication.	KB5031408	N/A
2023-10 Security Only Quality Update for Windows Embedded Standard 7 for x86-based Systems	Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication. This update includes daylight saving time (DST) changes for Greenland.	KB5031441	N/A
Windows Malicious Software Removal Tool x64 - v5.118	Windows Malicious Software Removal Tool (MSRT) 5.118 helps remove malicious software from computers running Windows 11, Windows 10, Windows 8.1, Windows Server 2012 R2, Windows 8, Windows Server 2012, Windows 7, or Windows Server 2008.	KB890830	N/A

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Security Patches:

BD Pyxis™ Tissue & Implant Management System

October 2023

BD has identified patches from Microsoft® that have been identified as critical or security related for October 2023. 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
2023-10 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems	<p>This cumulative security update includes improvements that are part of update KB5030269 (released September 12, 2023). This update also makes improvements for the following issues:</p> <p>Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication.</p> <p>This update includes daylight saving time (DST) changes for Ukraine and Greenland. For more information, see the Daylight Saving Time & Time Zone Blog.</p> <p>For more information about the resolved security vulnerabilities, please refer to the Deployments Security Update Guide and the October 2023 Security Updates.</p>	KB5031419	N/A

2023-10 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

Security Improvements

There are no new security improvements in this release. This update is cumulative and contains all previously released security improvements.

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.

Additional information about this update

The following articles contain additional information about this update as it relates to individual product versions.

5029915 Description of the Security and Quality Rollup for .NET Framework 3.5 for Windows Server 2012 R2 (KB5029915)

5031008 Description of the Security and Quality Rollup for .NET Framework 4.6.2, 4.7, 4.7.1, 4.7.2 for Windows Server 2012 R2 (KB5031008)

5031003 Description of the Security and Quality Rollup for .NET Framework 4.8 for Windows Server 2012 R2 (KB5031003)

[KB5031228](#)

N/A

Windows Malicious Software Removal Tool x64 - v5.115

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

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

[KB890830](#)

N/A

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.

2023-10 Cumulative Update for Windows Server 2016 for x64-based Systems

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

[KB5031362](#)

N/A

New! IE mode and Microsoft Edge can now share cookies. To learn more, see [Cookie sharing between Microsoft Edge and Internet Explorer](#).

New! This update completes the work to comply with the GB18030-2022 requirements. It removes and remaps characters for Microsoft Wubi input and Microsoft Pinyin U-mode input. You can no longer enter character codepoints that are not supported. All the required codepoints are up to date.

This update changes the spelling of Ukraine's capital from Kiev to Kyiv.

This update addresses an issue that affects external binding. It fails. This occurs after you install Windows updates dated May 2023 or later. Because of this, there are issues that affect LDAP queries and authentication.

To protect against CVE-2023-44487, you should install the latest Windows update. Based on your use case, you can also set the limit of the RST_STREAMS per minute using the new registry key in this update.

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 [October 2023 Security Updates](#)

2023-10 Cumulative
Update for .NET
Framework 4.8 for
Windows Server 2016 for
x64

Security Improvements

[KB5031000](#)

N/A

There are no new security improvements in this release.
This update is cumulative and contains all previously
released security improvements.
Quality and Reliability Improvements

ASP.NET - Addresses an issue with
"System.ArgumentException: Illegal characters in path"
in some ASP.Net MVC requests.

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Security Patches:

BD Pyxis™ Anesthesia Station ES

October 2023

BD has identified patches from Microsoft® that have been identified as critical or security related for October 2023. 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
2023-10 Security Monthly Quality Rollup for Windows Embedded Standard 7 for x86-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.	KB5031408	N/A
2023-10 Servicing Stack Update for Windows Embedded Standard 7 for x86-based Systems	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031658	N/A

Windows Malicious Software Removal Tool x64 - v5.118	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	N/A
2023-10 Security Only Quality Update for Windows Embedded Standard 7 for x86-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.	KB5031441	N/A
2023-10 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.	KB5031362	N/A
2023-10 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	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031226	N/A
2023-10 Cumulative Security Update for Internet Explorer 11 for Windows Embedded Standard 7 for x86-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.	KB5031355	N/A

2023-10 Cumulative Update for Windows 10 Version 1809 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.	KB5031361	N/A
2023-10 Cumulative Update for .NET Framework 3.5, 4.7.2 and 4.8 for Windows 10 Version 1809 for x64	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031222	N/A
2023-10 Cumulative Update for Windows 10 Version 21H2 for x64-based Systems	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031356	N/A
2023-10 Cumulative Update for .NET Framework 3.5, 4.8 and 4.8.1 for Windows 10 Version 21H2 for x64	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031223	N/A

2023-10 Servicing Stack Update for Windows 10 Version 21H2 for x64-based Systems	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031539	N/A
Security Update for SQL Server 2019 RTM CU	Security issues have been identified in the SQL Server 2019 RTM CU that could allow an attacker to compromise your system and gain control over it. You can help protect your computer by installing this update from Microsoft. After you install this item, you may have to restart your computer.	KB5029378	N/A

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Security Patches: BD Pyxis™ CII Safe ES

October 2023

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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
2023-10 Cumulative Update for Windows 10 Version 1809 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.	KB5031361	N/A
2023-10 Cumulative Update for .NET Framework 3.5, 4.7.2 and 4.8 for Windows 10 Version 1809 for x64	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031222	N/A

Windows Malicious Software Removal Tool x64 - v5.118	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	N/A
2023-10 Cumulative Update for Windows 10 Version 21H2 for x64-based Systems	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031356	N/A
2023-10 Cumulative Update for .NET Framework 3.5, 4.8 and 4.8.1 for Windows 10 Version 21H2 for x64	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031223	N/A
2023-10 Servicing Stack Update for Windows 10 Version 21H2 for x64-based Systems	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031539	N/A

Security Update for SQL Server 2019 RTM CU	Security issues have been identified in the SQL Server 2019 RTM CU that could allow an attacker to compromise your system and gain control over it. You can help protect your computer by installing this update from Microsoft. After you install this item, you may have to restart your computer.	KB5029378	N/A
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Security Patches: BD Pyxis™ Medstation™ ES

October 2023

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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
2023-10 Security Monthly Quality Rollup for Windows Embedded Standard 7 for x86-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.	KB5031408	N/A
2023-10 Servicing Stack Update for Windows Embedded Standard 7 for x86-based Systems	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031658	N/A

Windows Malicious Software Removal Tool x64 - v5.118	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	N/A
2023-10 Security Only Quality Update for Windows Embedded Standard 7 for x86-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.	KB5031441	N/A
2023-10 Cumulative Update for .NET Framework 4.8 for Windows 10 Version 1607 for x64	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031000	N/A
2023-10 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.	KB5031362	N/A
2023-10 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	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031226	N/A

2023-10 Cumulative Security Update for Internet Explorer 11 for Windows Embedded Standard 7 for x86-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.	KB5031355	N/A
2023-10 Cumulative Update for Windows 10 Version 1809 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.	KB5031361	N/A
2023-10 Cumulative Update for .NET Framework 3.5, 4.7.2 and 4.8 for Windows 10 Version 1809 for x64	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031222	N/A
2023-10 Cumulative Update for Windows 10 Version 21H2 for x64-based Systems	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031356	N/A

2023-10 Cumulative Update for .NET Framework 3.5, 4.8 and 4.8.1 for Windows 10 Version 21H2 for x64	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031223	N/A
2023-10 Servicing Stack Update for Windows 10 Version 21H2 for x64-based Systems	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031539	N/A
Security Update for SQL Server 2019 RTM CU	Security issues have been identified in the SQL Server 2019 RTM CU that could allow an attacker to compromise your system and gain control over it. You can help protect your computer by installing this update from Microsoft. After you install this item, you may have to restart your computer.	KB5029378	N/A

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Security Patches: BD Pyxis™ Enterprise Server

October 2023

BD has identified patches from Microsoft® that have been identified as critical or security related for October 2023. 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
2023-10 Cumulative Security Update for Internet Explorer 11 for Windows Server 2008 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.	KB5031355	N/A
2023-10 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.	KB5031419	N/A

2023-10 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, see the associated Microsoft Knowledge Base article. After you install this update, you may have to restart your system.	KB5031407	N/A
2023-10 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	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031228	N/A
2023-10 Servicing Stack Update for Windows Server 2008 for x64-based Systems	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031659	N/A
Windows Malicious Software Removal Tool x64 - v5.118	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	N/A

2023-10 Security Monthly Quality Rollup for Windows Server 2008 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.	KB5031416	N/A
2023-10 Security Only Quality Update for Windows Server 2008 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.	KB5031411	N/A
2023-10 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, see the associated Microsoft Knowledge Base article. After you install this update, you may have to restart your system.	KB5031362	N/A
2023-10 Cumulative Update for Windows Server 2019 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.	KB5031361	N/A

2023-10 Cumulative Update for .NET Framework 3.5, 4.7.2 and 4.8 for Windows Server 2019 for x64	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031222	N/A
Security Update for SQL Server 2019 RTM CU	Security issues have been identified in the SQL Server 2019 RTM CU that could allow an attacker to compromise your system and gain control over it. You can help protect your computer by installing this update from Microsoft. After you install this item, you may have to restart your computer.	KB5029378	N/A
SQL Server 2019 RTM Cumulative Update (CU) 21	CU21 for SQL Server 2019 RTM upgraded all SQL Server 2019 RTM instances and components installed through the SQL Server setup. CU21 can upgrade all editions and servicing levels of SQL Server 2019 RTM to the CU21 level. For customers in need of additional installation options, please visit the Microsoft Download Center to download the latest Cumulative Update (https://support.microsoft.com/kb/957826). To learn more about SQL Server 2019 RTM CU21, please visit the Microsoft Support (https://support.microsoft.com) Knowledge Base article KB5025808.	KB5025808	N/A
2023- 10.NET 6.0.23 Security Update for x64 Server	<p>.NET 6.0 has been refreshed with the latest update as of October 10, 2023. This update contains both security and non-security fixes. See the release notes for details on updated packages.</p> <p>.NET 6.0 servicing updates are upgrades. The latest servicing update for 6.0 will remove the previous 6.0 update upon successful installation. For example, when .NET 6.0.23 is installed .NET 6.0.22 version will be removed from the computer if present.</p>	KB5031900	N/A

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Security Patches: BD Pyxis™ SupplyStation™

October 2023

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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
2023-10 Security Only Quality Update for Windows Server 2008 for x86-based Systems (KB5031411)	This update makes improvements for the following issues: <ul style="list-style-type: none">Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication.This update includes daylight saving time (DST) changes for Greenland. For more information, see the Daylight-Saving Time & Time Zone Blog.	KB5031411	N/A
2023-10 Servicing Stack Update for Windows Server 2008 for x86-based Systems (KB5031659)	This update makes quality improvements to the servicing stack, which is the component that installs Windows updates. Servicing stack updates (SSU) makes sure that you have a robust and reliable servicing stack so that your devices can receive and install Microsoft updates.	KB5031659	N/A
2023-10 Servicing Stack Update for Windows Embedded Standard 7 for x86-based Systems (KB5031658)	This update makes quality improvements to the servicing stack, which is the component that installs Windows updates. Servicing stack updates (SSU) makes sure that you have a robust and reliable servicing stack so that your devices can receive and install Microsoft updates.	KB5031658	N/A

2023-10 Security Only Quality Update for Windows Embedded Standard 7 for x86-based Systems (KB5031441)	<p>This update makes improvements for the following issues:</p> <p>Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication.</p> <p>This update includes daylight saving time (DST) changes for Greenland. For more information, see the Daylight Saving Time & Time Zone Blog.</p>	KB5031441	N/A
2023-10 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 (KB5031228)	<p>Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.</p>	KB5031228	N/A
2023-10 Security Only Quality Update for Windows Server 2012 R2 for x64-based Systems (KB5031407)	<p>This update makes improvements for the following issues:</p> <p>Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication.</p> <p>This update includes daylight saving time (DST) changes for Ukraine and Greenland. For more information, see the Daylight Saving Time & Time Zone Blog.</p>	KB5031407	N/A
2023-10 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems (KB5031419)	<p>This cumulative security update includes improvements that are part of update KB5030269 (released September 12, 2023). This update also makes improvements for the following issues:</p> <p>Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication.</p> <p>This update includes daylight saving time (DST) changes for Ukraine and Greenland. For more information, see the Daylight Saving Time & Time Zone Blog.</p>	KB5031419	N/A
2023-10 Cumulative Security Update for Internet Explorer 11 for Windows Embedded Standard 7 for x86-based systems (KB5031355)	<p>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.</p>	KB5031355	N/A

2023-10 Security Monthly Quality Rollup for Windows Embedded Standard 7 for x86-based Systems (KB5031408)	This cumulative security update contains improvements that are part of update KB5030265 (released September 12, 2023). This update also makes improvements for the following issues:	KB5031408	N/A
	Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication.		
	This update includes daylight saving time (DST) changes for Greenland. For more information, see the Daylight-Saving Time & Time Zone Blog.		
2023-10 Cumulative Update for Windows Server 2016 for x64-based Systems (KB5031362)	This security update includes quality improvements. When you install this KB:	KB5031362	N/A
	<ul style="list-style-type: none"> • New! IE mode and Microsoft Edge can now share cookies. To learn more, see Cookie sharing between Microsoft Edge and Internet Explorer. • New! This update completes the work to comply with the GB18030-2022 requirements. It removes and remaps characters for Microsoft Wubi input and Microsoft Pinyin U-mode input. You can no longer enter character codepoints that are not supported. All the required codepoints are up to date. • This update changes the spelling of Ukraine's capital from Kiev to Kyiv. • This update addresses an issue that affects external binding. It fails. This occurs after you install Windows updates dated May 2023 or later. Because of this, there are issues that affect LDAP queries and authentication. • To protect against CVE-2023-44487, you should install the latest Windows update. Based on your use case, you can also set the limit of the RST_STREAMS per minute using the new registry key in this update. 		
2023-10 Cumulative Update for .NET Framework 4.8 for Windows Server 2016 for x64 (KB5031000)	Install this update to resolve issues in Windows. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article for more information. After you install this item, you may have to restart your computer.	KB5031000	N/A
2023-10 Cumulative Update for Windows Server 2019 for x64-based Systems (KB5031361)	This security update includes improvements. When you install this KB:	KB5031361	N/A
	<ul style="list-style-type: none"> • New! This update completes the work to comply with the GB18030-2022 requirements. It removes and remaps characters for Microsoft Wubi input and Microsoft Pinyin U-mode input. You can no longer enter character codepoints that are not supported. All the required codepoints are up to date. • New! This update adds Azure Arc Optional Component related links to Server Manager. Now, you can turn on Arc on your servers. You do not need to run a PowerShell script. 		

- This update changes the spelling of Ukraine's capital from Kiev to Kyiv.
- This update addresses an issue that affects scheduled tasks. Tasks that call the credential manager API might fail. This occurs if you select [Run only when user is logged on] and [Run with highest privileges].
- This update addresses an issue that stops you from getting the IE mode windows list.
- This update addresses an issue that affects external binding. It fails. This occurs after you install Windows updates dated May 2023 or later. Because of this, there are issues that affect LDAP queries and authentication.
- This update addresses an issue that affects those who enable the "Smart Card is Required for Interactive Logon" account option. When RC4 is disabled, you cannot authenticate to Remote Desktop Services farms. The error message is, "An authentication error has occurred. The requested encryption type is not supported by the KDC."
- This update addresses an issue that affects Kerberos delegation. It might fail in the wrong way. The error code is 0xC000006E (STATUS_ACCOUNT_RESTRICTION). This issue might occur when you mark the intermediate service account as "This account is sensitive and cannot be delegated" in Active Directory. Applications might also return the error message, "System.Security.Authentication.AuthenticationException: Failed to initialize security context. Error code was -2146893042."
- This update affects Windows Filtering Platform (WFP) connections. The redirect diagnostics for them has improved.
- This update addresses an issue that affects a relying party. When you sign out of it, a SAML request cookie is not cleared. Because of this, your device automatically attempts to connect to the same relying party when you sign in again.
- This update addresses an issue that affects the Server Message Block (SMB) client. It does not reconnect all the persistent handles when the reauthentication of a session fails.
- To protect against CVE-2023-44487, you should install the latest Windows update. Based on your use case, you can also set the limit of the RST_STREAMS per minute using the new registry key in this update.

2023-10 Cumulative Update for .NET Framework 3.5, 4.7.2 and 4.8 for Windows Server 2019 for x64 (KB5031222)	<p>This article describes the security and Cumulative Update for 3.5, 4.7.2 and 4.8 for Windows 10, version 1809 and Windows Server 2019.</p> <p>Security Improvements</p>	KB5031222	N/A
2023-10 Security Monthly Quality Rollup for Windows Server 2008 for x86-based Systems (KB5031416)	<p>This cumulative security update contains improvements that are part of update KB5030271 (released September 12, 2023). This update also makes improvements for the following issues:</p> <p>Addresses an issue in which an external bind might fail after Windows updates released on or after May 2023 are installed. This leads to issues with Lightweight Directory Access Protocol (LDAP) queries and authentication.</p> <p>This update includes daylight saving time (DST) changes for Greenland. For more information, see the Daylight-Saving Time & Time Zone Blog.</p>	KB5031416	N/A
Windows Malicious Software Removal Tool x64 - v5.115	<p>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.</p>	KB890830	N/A

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