

Security Patches:

BD Pyxis™ Anesthesia System 3500

August 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for August 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
2022-08 Security Monthly Quality Rollup for Windows Embedded Standard 7 for x86-based Systems.	This cumulative security update contains improvements that are part of update KB5015861 (released July 12, 2022) and includes new improvements for the following issues: Addresses an issue in which Speech and Network troubleshooters will not start. Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.	KB5016676	Applicable on 3500 Anesthesia System and MS3500 Station



2022-08 Security Only
Quality Update for
Windows Embedded
Standard 7 for x86-based
Systems

This security-only update includes new improvements for the following issue: Addresses an issue in which Speech and Network troubleshooters will not start. Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

[KB5016679](#)

Applicable on 3500
Anesthesia System
and MS3500
Station

2022-08 Cumulative
Security Update for
Internet Explorer 11 for
Windows Embedded
Standard 7 for x86-based
systems.

This security update resolves vulnerabilities in Internet Explorer.

[KB5016618](#)

Applicable on 3500
Anesthesia System
and MS3500
Station

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Security Patches:

BD Pyxis™ Anesthesia System 4000

August 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for August 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 - v5.104	The Windows Malicious Software Removal Tool (MSRT) helps remove malicious software from computers.	KB890830	Applicable on MS4000 Console, Anesthesia System and Station
2022-08 Cumulative Update for Windows 10 Version 1607 for x64-based Systems.	This security update includes quality improvements. Key changes include: Addresses an issue that prevents certain troubleshooting tools from opening. Addresses an issue that prevents the Key Distribution Center (KDC) Proxy from properly receiving Kerberos tickets for Key Trust Windows Hello for Business credentials. Addresses an issue that causes the KDC code to incorrectly return the error message "KDC_ERR_TGT_REVOKED" during domain controller shutdown. Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.	KB5016622	Applicable on Anesthesia System and MS4000





2022-08 Servicing Stack Update for Windows 10 Version 1607 for x64-based Systems.	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.	KB5017095	Applicable on Anesthesia System and MS4000
2022-08 Security Update for Windows 10 Version 1607 for x64-based Systems.	This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following: Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX. A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software. This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.	KB5012170	Applicable on Anesthesia System and MS4000
2022-08 Security Monthly Quality Rollup for Windows Embedded Standard 7 for x86-based Systems.	This cumulative security update contains improvements that are part of update KB5015861 (released July 12, 2022) and includes new improvements for the following issues: Addresses an issue in which Speech and Network troubleshooters will not start. Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.	KB5016676	Applicable on Anesthesia System and Station
2022-08 Security Only Quality Update for Windows Embedded Standard 7 for x86-based Systems.	This security-only update includes new improvements for the following issue: Addresses an issue in which Speech and Network troubleshooters will not start. Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards	KB5016679	Applicable on Anesthesia System and Station





for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

2022-08 Cumulative Security Update for Internet Explorer 11 for Windows Embedded Standard 7 for x86-based systems.

This security update resolves vulnerabilities in Internet Explorer.

[KB5016618](#) Applicable on Anesthesia System and Station

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Security Patches: BD Pyxis CIISafe

August 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for August 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
2022-08 Security Monthly Quality Rollup for Windows 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.	KB5016676	Applicable to CIISafe device.
2022-08 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.	KB5016622	Applicable to CIISafe device.

2022-08 Servicing Stack Update for Windows 10 Version 1607 for x86-based System.

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.

[KB5017095](#)

Applicable to CIISafe device.

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Security Patches:

BD Pyxis™ MedStation™ 3500

August 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for August 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
2022-08 Security Only Quality Update for Windows Embedded Standard 7 for x86-based Systems.	This security-only update includes new improvements for the following issue: Addresses an issue in which Speech and Network troubleshooters will not start. Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.	KB5016679	Applicable on 3500 Anesthesia System and MS3500 Station
2022-08 Security Monthly Quality Rollup for Windows Embedded Standard 7 for x86-based Systems.	This cumulative security update contains improvements that are part of update KB5015861 (released July 12, 2022) and includes new improvements for the following issues: Addresses an issue in which Speech and Network troubleshooters will not start. Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a	KB5016676	Applicable on 3500 Anesthesia System and MS3500 Station





hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

Windows Malicious Software Removal Tool - v5.104

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

[KB890830](#)

Applicable on MS3500 and MS4000 Console

2022-08 Security Only Quality Update for Windows Server 2008 for x86-based Systems.

This security-only update includes new improvements for the following issue: Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

[KB5016686](#)

Applicable on MS3500 and MS4000 Console

2022-08 Security Monthly Quality Rollup for Windows Server 2008 for x86-based Systems.

This cumulative security update contains improvements that are part of update KB5015866 (released July 12, 2022) and includes new improvements for the following issue: Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

[KB5016669](#)

Applicable on MS3500 and MS4000 Console

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Security Patches:

BD Pyxis™ MedStation™ 4000

August 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for August 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 - v5.104	The Windows Malicious Software Removal Tool (MSRT) helps remove malicious software from computers.	KB890830	Applicable on MS4000 Console, Anesthesia System and Station
2022-08 Cumulative Update for Windows Server 2016 for x64-based Systems.	This security update includes quality improvements. Key changes include: Addresses an issue that prevents certain troubleshooting tools from opening. Addresses an issue that prevents the Key Distribution Center (KDC) Proxy from properly receiving Kerberos tickets for Key Trust Windows Hello for Business credentials. Addresses an issue that causes the KDC code to incorrectly return the error message "KDC_ERR_TGT_REVOKED" during domain controller shutdown. Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.	KB5016622	Applicable on MS4000 Console





<p>2022-08 Security Update for Windows Server 2016 for x64-based Systems.</p>	<p>This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following: Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX. A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software. This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX..</p>	<p>KB5012170 Applicable on MS4000 Console</p>
<p>2022-08 Servicing Stack Update for Windows Server 2016 for x64-based Systems.</p>	<p>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.</p>	<p>KB5017095 Applicable on MS4000 Console</p>
<p>2022-08 Cumulative Update for Windows 10 Version 1607 for x64-based Systems.</p>	<p>This security update includes quality improvements. Key changes include: Addresses an issue that prevents certain troubleshooting tools from opening. Addresses an issue that prevents the Key Distribution Center (KDC) Proxy from properly receiving Kerberos tickets for Key Trust Windows Hello for Business credentials. Addresses an issue that causes the KDC code to incorrectly return the error message "KDC_ERR_TGT_REVOKED" during domain controller shutdown. Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.</p>	<p>KB5016622 Applicable on MS4000 and Anesthesia System</p>
<p>2022-08 Security Update for Windows 10 Version 1607 for x64-based Systems</p>	<p>This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following: Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX. A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software. This security update addresses the</p>	<p>KB5012170 Applicable on MS4000 and Anesthesia System</p>



vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.

2022-08 Servicing Stack Update for Windows 10 Version 1607 for x64-based Systems.	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.	KB5017095	Applicable on MS4000 and Anesthesia System
Windows Malicious Software Removal Tool - v5.104	The Windows Malicious Software Removal Tool (MSRT) helps remove malicious software from computers.	KB890830	Applicable on MS4000 Console and MED3500 Console
2022-08 Security Only Quality Update for Windows Server 2008 for x86-based Systems.	This security-only update includes new improvements for the following issue: Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.	KB5016686	Applicable on MS4000 Console and MED3500 Console
2022-08 Security Monthly Quality Rollup for Windows Server 2008 for x86-based Systems.	This cumulative security update contains improvements that are part of update KB5015866 (released July 12, 2022) and includes new improvements for the following issue: Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.	KB5016669	Applicable on MS4000 Console and MED3500 Console



2022-08 Security
Monthly Quality
Rollup for Windows
Embedded Standard
7 for x86-based
Systems.

This cumulative security update contains improvements that are part of update KB5015861 (released July 12, 2022) and includes new improvements for the following issues: Addresses an issue in which Speech and Network troubleshooters will not start. Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

[KB5016676](#) Applicable on
MS4000 and
Anesthesia System

2022-08 Security
Only Quality Update
for Windows
Embedded Standard
7 for x86-based
Systems.

This security-only update includes new improvements for the following issue: Addresses an issue in which Speech and Network troubleshooters will not start. Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

[KB5016679](#) Applicable on
MS4000 and
Anesthesia System

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Security Patches: Security Module

August 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
Windows Malicious Software Removal Tool x64 - v5.104 (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	Applicable on Security Module devices.
2022-08 Security Update for Windows Server 2012 for x64-based Systems (KB5012170)	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.	KB5012170	Applicable on Security Module devices.
2022-08 Cumulative Security Update for Internet Explorer 11 for Windows Server 2012 R2 for x64-based systems (KB5016618)	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.	KB5016618	Applicable on Security Module devices.



2022-08 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems (KB5016681)

This cumulative security update includes improvements that are part of update KB5015874 (released July 12, 2022) and includes new improvements for the following issues:

- Addresses an issue in which Speech and Network troubleshooters will not start.
- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.
- Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of [RFC 4556](#). If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see [KB5005408](#).

[KB5016681](#)

Applicable on Security Module devices.

2022-08 Security Only Quality Update for Windows Server 2012 R2 for x64-based Systems (KB5016683)

This security-only update includes new improvements for the following issue:

- Addresses an issue in which Speech and Network troubleshooters will not start.
- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.
- Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of [RFC 4556](#). If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see [KB5005408](#).

[KB5016683](#)

Applicable on Security Module devices.

2022-08 Cumulative Update for Windows Server 2016 for x64-based Systems (KB5016622)

This security update includes quality improvements. Key changes include:

- Addresses an issue that prevents certain troubleshooting tools from opening.
- Addresses an issue that prevents the Key Distribution Center (KDC) Proxy from properly receiving Kerberos tickets for Key Trust Windows Hello for Business credentials.
- Addresses an issue that causes the KDC code to incorrectly return the error message “KDC_ERR_TGT_REVOKED” during domain controller shutdown.

[KB5016622](#)

Applicable on Security Module devices.

- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.
- Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of [RFC 4556](#). If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see [KB5005408](#).

2022-08 Servicing Stack Update for Windows Server 2016 for x64-based Systems (KB5017095)

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.

[KB5017095](#)

Applicable on Security Module devices.

Security Patches: BD Pyxis™ IV Prep

August 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for August 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 - v5.101	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
2022-08 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.	KB5016622	Applicable on Cato





2022-08 Servicing Stack Update for Windows Server 2016 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.	KB5017095	Applicable on Cato
2022-08 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.	KB5016740	Applicable on Cato
2022-08 Security 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.	KB5012170	Applicable on Cato
2022-08 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.	KB5016681	Applicable on Cato

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Security Patches: BD Pyxis Connect

August 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for August 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
2022-08 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems	<p>Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.</p> <p>Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.</p>	KB5016681	N/A
2022-08 Security Update for Windows Server 2012 R2/2016 for x64-based Systems	<p>This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section.</p>	KB5012170	N/A



<p>Windows Malicious Software Removal Tool - v5.104(KB890830)</p>	<p>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.</p>	<p>KB890830</p>	<p>N/A</p>
<p>2022-08 Cumulative Security Update for Internet Explorer 11 for Windows Server 2012 R2 for x64-based systems</p>	<p>This security update resolves vulnerabilities in Internet Explorer. To learn more about these vulnerabilities, see Deployments Security Update Guide.</p> <p>Additionally, see the following articles for more information about cumulative updates:</p> <ul style="list-style-type: none"> Windows Server 2008 SP2 update history Windows 7 SP1 and Windows Server 2008 R2 SP1 update history Windows Server 2012 update history Windows 8.1 and Windows Server 2012 R2 update history 	<p>KB5016618</p>	<p>N/A</p>
<p>2022-08 Security Only Quality Update for Windows Server 2012 R2 for x64-based Systems</p>	<p>This security-only update includes new improvements for the following issue:</p> <p>Addresses an issue in which Speech and Network troubleshooters will not start.</p> <p>Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.</p> <p>Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will</p>	<p>KB5016683</p>	<p>N/A</p>



	not exist after August 9, 2022. For more information about this change, see KB5005408.		
2022-08 Servicing Stack Update for Windows Server 2016 for x64-based Systems	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.	KB5017095	N/A
2022-08 Cumulative Update for Windows Server 2016 for x64-based Systems	This security update includes quality improvements. Key changes include: Addresses an issue that prevents certain troubleshooting tools from opening. Addresses an issue that prevents the Key Distribution Center (KDC) Proxy from properly receiving Kerberos tickets for Key Trust Windows Hello for Business credentials. Addresses an issue that causes the KDC code to incorrectly return the error message "KDC_ERR_TGT_REVOKED" during domain controller shutdown.	KB5016622	N/A



<p>2022-08 Security Update for Windows Server 2019 for x64-based Systems</p>	<p>This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following:</p> <p>Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX.</p> <p>A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software.</p> <p>This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.</p>	<p>KB5012170</p>	<p>N/A</p>
<p>Cumulative Update for Windows 10 Version 21H2 for x64-based Systems (KB5016616)</p>	<p>Addresses an issue that affects the printing of files you submit to a printer.</p> <p>Addresses a known issue that might prevent the Input Indicator and Language Bar from displaying in the notification area. This issue affects devices that have more than one language installed.</p> <p>Addresses security issues for your Windows operating system.</p>	<p>KB5016616</p>	

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Security Patches: BD Pharmogistics

August 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for August 2022. These patches were not found to adversely affect BD Pharmogistics 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	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.

2022-08 Security Update for Windows Server 2012 R2 for x64-based Systems (KB5012170)
Last Modified: 8/9/2022

[KB5012170](#)

Applicable on PLX, CII Safe and Infusion.

This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following:

Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX.

A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software.

This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.

2022-08 Cumulative Update for Windows Server 2016 for x64-based Systems (KB5016622)
Last Modified: 8/9/2022

[KB5016622](#)

Applicable on PLX, CII Safe and Infusion.

Addresses an issue that prevents certain troubleshooting tools from opening.

Addresses security issues for your Windows operating system.

Improvements

This security update includes quality improvements. Key changes include:

Addresses an issue that prevents certain troubleshooting tools from opening.

Addresses an issue that prevents the Key Distribution Center (KDC) Proxy from properly receiving Kerberos tickets for Key Trust Windows Hello for Business credentials.

Addresses an issue that causes the KDC code to incorrectly return the error message "KDC_ERR_TGT_REVOKED" during domain controller shutdown.



2022-08 Cumulative Security Update for Internet Explorer 11 for Windows Server 2012 R2 for x64-based systems (KB5016618)
Last Modified: 8/9/2022

This security update resolves vulnerabilities in Internet Explorer. To learn more about these vulnerabilities, see [Deployments | Security Update Guide](#).

[KB5016618](#)

Applicable on PLX, CII Safe and Infusion.

2022-08 Security Update for Windows Server 2012 R2 for x64-based Systems (KB5012170)
Last Modified: 8/9/2022

This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following:

[KB5012170](#)

Applicable on PLX, CII Safe and Infusion.

Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX.

A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software.

This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.

2022-08 Servicing Stack Update for Windows Server 2016 for x64-based Systems (KB5017095)
Last Modified: 8/9/2022

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.

[KB5017095](#)

Applicable on PLX, CII Safe and Infusion.

2022-08 Security Only Quality Update for Windows Server 2012 R2 for x64-based Systems (KB5016683)
Last Modified: 8/9/2022

This security-only update includes new improvements for the following issue:

Addresses an issue in which Speech and Network troubleshooters will not start.

Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.

[KB5016683](#)

Applicable on PLX, CII Safe and Infusion.

2022-08 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems (KB5016681)
Last Modified: 8/9/2022

This cumulative security update includes improvements that are part of update KB5015874 (released July 12, 2022) and includes new improvements for the following issues:

Addresses an issue in which Speech and Network troubleshooters will not start.

Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device

[KB5016681](#)

Applicable on PLX, CII Safe and Infusion.



performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.

2022-08 Security Update for Windows 10 Version 20H2 for x64-based Systems (KB5012170)
Last Modified: 8/9/2022

[KB5012170](#)

Applicable on PLX, CII Safe and Infusion.

This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following:

Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX.

A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software.

This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.

2022-08 Security
Monthly Quality Rollup
for Windows Server
2008 R2 for x64-based
Systems (KB5016676)
Last
Modified: 8/9/2022

This cumulative security update contains improvements that are part of update KB5015861 (released July 12, 2022) and includes new improvements for the following issues:

[KB5016676](#)

Applicable on
PLX, CII Safe
and Infusion.

Addresses an issue in which Speech and Network troubleshooters will not start.

Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.

2022-08 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
(KB5016738)
Last
Modified: 8/9/2022

Security Improvements

[KB5016738](#)

Applicable on
PLX, CII Safe
and Infusion.

This security update addresses an issue where a local user opening a specially crafted file could cause a denial of service condition on an affected system. For more information please see CVE-2022-30130.

Quality 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.

2022-08 Cumulative
Security Update for
Internet Explorer 11 for
Windows Server 2008
R2 for x64-based
systems (KB5016618)
Last
Modified: 8/9/2022

This security update resolves vulnerabilities in Internet Explorer. To learn more about these vulnerabilities, see Deployments | Security Update Guide.

[KB5016618](#)

Applicable on
PLX, CII Safe
and Infusion.



2022-08 Security Only
Quality Update for
Windows Server 2008
R2 for x64-based
Systems (KB5016679)
Last
Modified: 8/9/2022

This security-only update includes new improvements for the following issue:

Addresses an issue in which Speech and Network troubleshooters will not start.

Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.

[KB5016679](#)

Applicable on
PLX, CII Safe
and Infusion.

2022-08 Security
Monthly Quality Rollup
for Windows Server
2008 R2 for x64-based
Systems (KB5016676)
Last
Modified: 8/9/2022

This cumulative security update contains improvements that are part of update KB5015861 (released July 12, 2022) and includes new improvements for the following issues:

Addresses an issue in which Speech and Network troubleshooters will not start.

Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.

[KB5016676](#)

Applicable on
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Security Patches: PARx

Aug 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for Aug 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
Security Update for Windows 10 Version 1607 for x64-based Systems	<p>This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following:</p> <p>Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX.</p> <p>A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software.</p> <p>This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.</p>	KB4535680	Applicable to Parx

2021-01 Update for Windows 10 Version 1607 for x64-based Systems

This update is a standalone update that is targeted at Windows 10, version 1607 and Windows Server 2016. This update also includes Intel microcode updates that were already released for these operating systems at the time of release

[KB4589210](#)

Applicable to Parx

Update for Removal of Adobe Flash Player for Windows 10 Version 1607 for x64-based systems

This update removes Adobe Flash Player that is installed on any of the Windows operating systems

[KB4577586](#)

Applicable to Parx

Windows Malicious Software Removal Tool x64 - v5.104

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

[KB890830](#)

Applicable to Parx

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

2022-08 Servicing Stack Update for Windows 10 Version 1607 for x64-based Systems

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.

[KB5017095](#)

Applicable to Parx

2022-08 Cumulative Update for Windows 10 Version 1607 for x64-based Systems

This security update includes quality improvements. Key changes include:

[KB5016622](#)

Applicable to Parx

Addresses an issue that prevents certain troubleshooting tools from opening.

Addresses an issue that prevents the Key Distribution Center (KDC) Proxy from properly receiving Kerberos tickets for Key Trust Windows Hello for Business credentials.

Addresses an issue that causes the KDC code to incorrectly return the error message “KDC_ERR_TGT_REVOKED” during domain controller shutdown.

Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.

2022-08 Security Update for Windows 10 Version 1607 for x64-based Systems

This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following:

[KB5012170](#)

Applicable to Parx

Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX.

A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software.

This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.

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Security Patches: TIM

Aug 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for Aug 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
2022-08 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 KB5015874 (released July 12, 2022) and includes new improvements for the following issues:</p> <p>Addresses an issue in which Speech and Network troubleshooters will not start.</p> <p>Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.</p> <p>Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.</p>	KB5016681	Applicable on TIM.



2022-08 Security Only
Quality Update for Windows
Server 2012 R2 for x64-
based Systems

This security-only update includes new
improvements for the following issue:

[KB5016683](#)

Applicable on TIM.

Addresses an issue in which Speech and Network
troubleshooters will not start.

Addresses an issue that might cause the Local
Security Authority Server Service (LSASS) to leak
tokens. This issue affects devices that have installed
Windows updates dated June 14, 2022 or later. This
issue occurs when the device performs a specific
form of service for user (S4U) in a non-Trusted
Computing Base (TCB) Windows service that runs as
Network Service.

Enforces a hardening change that requires printers
and scanners that use smart cards for
authentication to have firmware that complies with
section 3.2.1 of RFC 4556. If they do not comply,
Active Directory domain controllers will not
authenticate them. Mitigations that allowed non-
compliant devices to authenticate will not exist after
August 9, 2022. For more information about this
change, see KB5005408.

2022-08 Security Update
for Windows Server 2012
R2 for x64-based Systems

This security update applies only to the following
Windows versions:

[KB5012170](#)

Applicable on TIM.

Windows Server 2012

Windows 8.1 and Windows Server 2012 R2

Windows 10, version 1507

Windows 10, version 1607 and Windows Server
2016

Windows 10, version 1809 and Windows Server
2019

Windows 10, version 20H2

Windows 10, version 21H1

Windows 10, version 21H2

Windows Server 2022

Windows 11, version 21H2 (original release)



Azure Stack HCI, version 1809

Azure Stack Data Box, version 1809 (ASDB)

Summary

This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following:

Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX.

A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software.

This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.

Windows Malicious
Software Removal Tool
x64 - v5.104

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 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

[KB890830](#)

Applicable on TIM.



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.

2022-08 Cumulative Security Update for Internet Explorer 11 for Windows Server 2012 R2 for x64-based systems

This security update resolves vulnerabilities in Internet Explorer. To learn more about these vulnerabilities, see Deployments | Security Update Guide.

[KB5016618](#) Applicable on TIM.

Additionally, see the following articles for more information about cumulative updates:

[Windows Server 2008 SP2 update history](#)

[Windows 7 SP1 and Windows Server 2008 R2 SP1 update history](#)

[Windows Server 2012 update history](#)

[Windows 8.1 and Windows Server 2012 R2 update history](#)

2022-08 Servicing Stack Update for Windows Server 2016 for x64-based Systems

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.

[KB5017095](#) Applicable on TIM.

2022-08 Cumulative Update for Windows Server 2016 for x64-based Systems

This security update includes quality improvements. Key changes include:

[KB5016622](#) Applicable on TIM.

Addresses an issue that prevents certain troubleshooting tools from opening.

Addresses an issue that prevents the Key Distribution Center (KDC) Proxy from properly receiving Kerberos tickets for Key Trust Windows Hello for Business credentials.

Addresses an issue that causes the KDC code to incorrectly return the error message "KDC_ERR_TGT_REVOKED" during domain controller shutdown.

Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows



updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.

Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

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 August 2022 Security Updates.

2022-08 Cumulative
Update for .NET
Framework 4.8 for
Windows Server 2016 for
x64

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

[KB5016373](#)

Applicable on
TIM.

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Security Patches: BD Pyxis™ CIISafe ES.

August 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for August 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 - v5.104	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 CII Safe ES.

2022-08 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.

[KB5012170](#)

Applicable on CII Safe ES.

2022-08 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.

[KB5016623](#)

Applicable on CII Safe ES.

2022-08 Security Update for Windows 10 Version 21H2 9 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.

[KB5012170](#)

Applicable on CII Safe ES.

2022-08 Cumulative Update for Windows 10 Version 21H2 for x64-based Systems

A 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 system.

[KB5016616](#)

Applicable on CII Safe ES.

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Security Patches: BD Pyxis™ ES Server

August 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for August 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
2022-08 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.	KB5016623	Applicable on Server.
2022-08 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.	KB5012170	Applicable on Server.

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Security Patches: BD Pyxis™ Supply

August 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for August 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
2022-08 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems (KB5016681)	<p>This cumulative security update includes improvements that are part of update KB5015874 (released July 12, 2022) and includes new improvements for the following issues:</p> <ul style="list-style-type: none">• Addresses an issue in which Speech and Network troubleshooters will not start.• Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.• Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.	KB5016681	Applicable on Supply.



2022-08 Security Only Quality Update for Windows Server 2012 R2 for x64-based Systems (KB5016683)

This security-only update includes new improvements for the following issue:

[KB5016683](#)

Applicable on Supply.

- Addresses an issue in which Speech and Network troubleshooters will not start.
- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.
- Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

2022-08 Security Update for Windows Server 2012 R2 for x64-based Systems (KB5012170)

This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following:

[KB5012170](#)

Applicable on Supply.

- Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX.
- A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software.
- This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.

2022-08 Security Update for Windows 10 Version 1809 for x-based Systems (KB5012170)

This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following:

[KB5012170](#)

Applicable on Supply.

- Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX.

- A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software.
- This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.

2022-08 Security Update for Windows Server 2019 for x64-based Systems (KB5012170)

This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following:

[KB5012170](#)

Applicable on Supply.

- Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX.
- A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software.
- This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.

2022-08 Security Update for Windows Server 2016 for x64-based Systems (KB5012170)

This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following:

[KB5012170](#)

Applicable on Supply.

- Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX.
- A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software.
- This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.

2022-08 Cumulative Security Update for Internet Explorer 11 for Windows Server 2012 R2 for x64-based systems (KB5016618)

This security update resolves vulnerabilities in Internet Explorer.

[KB5016618](#)

Applicable on Supply.



2022-08 Security Only Quality Update for Windows Embedded Standard 7 for x86-based Systems (KB5016679)

This security-only update includes new improvements for the following issue:

- Addresses an issue in which Speech and Network troubleshooters will not start.
- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.
- Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

[KB5016679](#)

Applicable on Supply.

2022-08 Security Monthly Quality Rollup for Windows Embedded Standard 7 for x86-based Systems (KB5016676)

This cumulative security update contains improvements that are part of update KB5015861 (released July 12, 2022) and includes new improvements for the following issues:

- Addresses an issue in which Speech and Network troubleshooters will not start.
- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.
- Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

[KB5016676](#)

Applicable on Supply.



2022-08 Cumulative Update for Windows Server 2016 for x64-based Systems (KB5016622)

This security update includes quality improvements. Key changes include:

- Addresses an issue that prevents certain troubleshooting tools from opening.
- Addresses an issue that prevents the Key Distribution Center (KDC) Proxy from properly receiving Kerberos tickets for Key Trust Windows Hello for Business credentials.
- Addresses an issue that causes the KDC code to incorrectly return the error message “KDC_ERR_TGT_REVOKED” during domain controller shutdown.
- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.
- Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

[KB5016622](#)

Applicable on Supply.

2022-08 Servicing Stack Update for Windows Server 2016 for x64-based Systems (KB5017095)

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.

[KB5017095](#)

Applicable on Supply.

2022-08 Cumulative Update for Windows Server 2019 for x64-based Systems (KB5016623)

This security update includes improvements that were a part of update KB5015880 (released July 21, 2022) and also addresses the following issues:

- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.

[KB5016623](#)

Applicable on Supply.



2022-08 Cumulative Update for Windows 10 Version 1809 for x64-based Systems (KB5016623)

This security update includes improvements that were a part of update KB5015880 (released July 21, 2022) and also addresses the following issues:

- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.

[KB5016623](#)

Applicable on Supply.

2022-08 Security Monthly Quality Rollup for Windows Server 2008 for x86-based Systems (KB5016669)

This cumulative security update contains improvements that are part of update KB5015866 (released July 12, 2022) and includes new improvements for the following issue:

- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.
- Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

[KB5016669](#)

Applicable on Supply.



2022-08 Security Only
Quality Update for
Windows Server 2008 for
x86-based Systems
(KB5016686)

This security-only update includes new improvements
for the following issue:

- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.
- Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

[KB5016686](#)

Applicable on
Supply.

Windows Malicious
Software Removal Tool
x64 - v5.104

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](#)

Applicable on
Supply.

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Security Patches: BD Pyxis™ Anesthesia ES

August 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for August 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 - v5.104	The Windows Malicious Software Removal Tool (MSRT) helps remove malicious software from computers.	KB890830	Applicable on Med station device.
2022-08 Security Only Quality Update for Windows Embedded Standard 7 for x86-based Systems	This security-only update includes new improvements for the following issue: <ul style="list-style-type: none">• Addresses an issue in which Speech and Network troubleshooters will not start.• Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.• Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more	KB5016679	Applicable on Anesthesia station.

information about this change, see KB5005408.

2022-08 Cumulative Security Update for Internet Explorer 11 for Windows Embedded Standard 7 for x86-based systems.	This security update resolves vulnerabilities in Internet Explorer.	KB5016618	Applicable on Anesthesia station.
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2022-08 Security Monthly Quality Rollup for Windows Embedded Standard 7 for x86-based Systems.

This cumulative security update contains improvements that are part of update KB5015861 (released July 12, 2022) and includes new improvements for the following issues: Addresses an issue in which Speech and Network troubleshooters will not start. Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

[KB5016676](#) Applicable on Anesthesia station.

2022-08 Cumulative Update for Windows 10 Version 1607 for x64-based Systems.

This security update includes quality improvements. Key changes include: Addresses an issue that prevents certain troubleshooting tools from opening. Addresses an issue that prevents the Key Distribution Center (KDC) Proxy from properly receiving Kerberos tickets for Key Trust Windows Hello for Business credentials. Addresses an issue that causes the KDC code to incorrectly return the error message "KDC_ERR_TGT_REVOKED" during domain controller shutdown. Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and

[KB5016622](#) Applicable on Anesthesia station.

scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

2022-08 Servicing Stack Update for Windows 10 Version 1607 for x64-based Systems.	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.	KB5017095	Applicable on Anesthesia station.
2022-08 Security Update for Windows 10 Version 1607 for x64-based Systems.	This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following: Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX. A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software. This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.	KB5012170	Applicable on Anesthesia station.
2022-08 Security Update for Windows 10 Version 1809 for x-64-based Systems	This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following: <ul style="list-style-type: none">• Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX.• A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software.• This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.	KB5012170	Applicable on Anesthesia station.

2022-08 Cumulative Update for Windows 10 Version 1809 for x64-based Systems	<p>This security update includes improvements that were a part of update KB5015880 (released July 21, 2022) and also addresses the following issues:</p> <ul style="list-style-type: none"> Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. 	KB5016623	Applicable on Anesthesia station.
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2022-08 Security Update for Windows 10 Version 21H2 9 for x64-based Systems	<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>	KB5012170	Applicable on Anesthesia station.
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2022-08 Cumulative Update for Windows 10 Version 21H2 for x64-based Systems	<p>A 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 system.</p>	KB5016616	Applicable on Anesthesia station.
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2022-08 Cumulative Update for Windows 10 Version 1809 for x64-based Systems	<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>	KB5012170	Applicable on Anesthesia station.
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Security Patches: BD Pyxis™ Med Station ES

August 2022

BD has identified patches from Microsoft® that have been identified as critical or security related for August 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 - v5.104	The Windows Malicious Software Removal Tool (MSRT) helps remove malicious software from computers.	KB890830	Applicable on Med station.
2022-08 Cumulative Security Update for Internet Explorer 11 for Windows Server 2012 R2 for x64-based systems	This security update resolves vulnerabilities in Internet Explorer.	KB5016618	Applicable on Med station.

2022-08 Security Update for Windows Server 2012 R2 for x64-based Systems

This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following:

- Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX.
- A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software.
- This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.

[KB5012170](#)

Applicable on Med station.

2022-08 Security Only Quality Update for Windows Server 2012 R2 for x64-based Systems

This security-only update includes new improvements for the following issue:

- Addresses an issue in which Speech and Network troubleshooters will not start.
- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.

Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

[KB5016683](#)

Applicable on Med station.

2022-08 Security Monthly Quality Rollup for Windows Server 2012 R2 for x64-based Systems

This cumulative security update includes improvements that are part of update KB5015874 (released July 12, 2022) and includes new improvements for the following issues:

[KB5016681](#)

Applicable on Med station.

- Addresses an issue in which Speech and Network troubleshooters will not start.
- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.

Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

2022-08 Security Only Quality Update for Windows Embedded Standard 7 for x86-based Systems

This security-only update includes new improvements for the following issue:

[KB5016679](#)

Applicable on Med station.

- Addresses an issue in which Speech and Network troubleshooters will not start.
- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.
- Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

2022-08 Security Monthly Quality Rollup for Windows Embedded Standard 7 for x86-based Systems.

This cumulative security update contains improvements that are part of update KB5015861 (released July 12, 2022) and includes new improvements for the following issues: Addresses an issue in which Speech and Network troubleshooters will not start. Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

[KB5016676](#) Applicable on Med station.

2022-08 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.

[KB5016740](#) Applicable on Med station.

2022-08 Cumulative Update for Windows 10 Version 1607 for x64-based Systems.

This security update includes quality improvements. Key changes include: Addresses an issue that prevents certain troubleshooting tools from opening. Addresses an issue that prevents the Key Distribution Center (KDC) Proxy from properly receiving Kerberos tickets for Key Trust Windows Hello for Business credentials. Addresses an issue that causes the KDC code to incorrectly return the error message "KDC_ERR_TGT_REVOKED" during domain controller shutdown. Addresses an issue that might cause the

[KB5016622](#) Applicable on Med station.

Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

2022-08 Servicing Stack Update for Windows 10 Version 1607 for x64-based Systems.	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.	KB5017095	Applicable on Med station.
2022-08 Security Update for Windows 10 Version 1607 for x64-based Systems.	his security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following: Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX. A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software. This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.	KB5012170	Applicable on Med station.
2022-08 Security Update for Windows Server 2016 for x64-based Systems	This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following: <ul style="list-style-type: none">• Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX.• A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software.• This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX.	KB5012170	Applicable on Med station.

2022-08 Cumulative Update for Windows Server 2016 for x64-based Systems

This security update includes quality improvements. Key changes include:

- Addresses an issue that prevents certain troubleshooting tools from opening.
- Addresses an issue that prevents the Key Distribution Center (KDC) Proxy from properly receiving Kerberos tickets for Key Trust Windows Hello for Business credentials.
- Addresses an issue that causes the KDC code to incorrectly return the error message “KDC_ERR_TGT_REVOKED” during domain controller shutdown.
- Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service.
- Enforces a hardening change that requires printers and scanners that use smart cards for authentication to have firmware that complies with section 3.2.1 of RFC 4556. If they do not comply, Active Directory domain controllers will not authenticate them. Mitigations that allowed non-compliant devices to authenticate will not exist after August 9, 2022. For more information about this change, see KB5005408.

[KB5016622](#)

Applicable on Med station.

2022-08 Servicing Stack Update for Windows Server 2016 for x64-based Systems

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.

[KB5017095](#)

Applicable on Med station.

2022-08 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.

[KB5012170](#)

Applicable on MedSTN device.

<p>2022-08 Security Update for Windows 10 Version 1809 for x-64 based Systems</p>	<p>This security update makes improvements to Secure Boot DBX for the supported Windows versions listed in the "Applies to" section. Key changes include the following:</p> <ul style="list-style-type: none"> • Windows devices that has Unified Extensible Firmware Interface (UEFI) based firmware can run with Secure Boot enabled. The Secure Boot Forbidden Signature Database (DBX) prevents UEFI modules from loading. This update adds modules to the DBX. • A security feature bypass vulnerability exists in secure boot. An attacker who successfully exploited the vulnerability might bypass secure boot and load untrusted software. • This security update addresses the vulnerability by adding the signatures of the known vulnerable UEFI modules to the DBX. 	<p>KB5012170</p>	<p>Applicable on Med station.</p>
<p>2022-08 Cumulative Update for Windows 10 Version 1809 for x64-based Systems</p>	<p>This security update includes improvements that were a part of update KB5015880 (released July 21, 2022) and also addresses the following issues:</p> <ul style="list-style-type: none"> • Addresses an issue that might cause the Local Security Authority Server Service (LSASS) to leak tokens. This issue affects devices that have installed Windows updates dated June 14, 2022 or later. This issue occurs when the device performs a specific form of service for user (S4U) in a non-Trusted Computing Base (TCB) Windows service that runs as Network Service. 	<p>KB5016623</p>	<p>Applicable on Med station.</p>
<p>2022-08 Cumulative Security Update for Internet Explorer 11 for Windows Embedded Standard 7 for x86-based systems.</p>	<p>This security update resolves vulnerabilities in Internet Explorer.</p>	<p>KB5016618</p>	<p>Applicable on Med station.</p>

2022-08 Security Update for Windows 10 Version 21H2 9 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.	KB5012170	Applicable on Med station.
2022-08 Cumulative Update for Windows 10 Version 21H2 for x64-based Systems	A 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 system.	KB5016616	Applicable on Med station.

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