



Cylance Endpoint Security

CylancePROTECT Desktop for Windows 3.x

Upgrade Guide

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Benefits of upgrading to CylancePROTECT Desktop for Windows 3.x

CylancePROTECT Desktop version 3.x represents a significant leap forward for the product, introducing new features and usability enhancements to keep your organization’s data and devices secure.

Upgrading to CylancePROTECT Desktop for Windows 3.x will give you access to the following features:

Feature	Description
OS compatibility	The Windows 3.x agent adds support for Windows 11. For more information, see the CylancePROTECT Desktop compatibility matrix .
Agent enhancements	<ul style="list-style-type: none"> The Windows 3.1 agent runs as a trusted service using Antimalware Protected Process Light (AM-PPL) technology from Microsoft, which protects the agent's security processes from malicious actions. For example, it helps protect the agent from being terminated. This feature requires the endpoint to be running Windows 10 1709 or later, or Windows Server 2019 or later.
Memory protection enhancements	<ul style="list-style-type: none"> New capabilities have been added to violation types, resulting in the generation of more events. The “Injection via APC” violation type is available in the memory protection settings of a device policy. This option enables CylancePROTECT Desktop to detect a process that is injecting arbitrary code into the target process using an asynchronous procedure call (APC). For more information, see KB 92422. The “Memory Permission Changes in Child Processes” violation type is available in the memory protection settings of a device policy. This option enables CylancePROTECT Desktop to detect when a violating process has created a child process and has modified memory access permissions in that child process. Improved usability for memory protection controls. Improved detection of LSASS read violations for Windows devices. The size limit for memory protection exclusions has been increased from 64 KB to 2 MB, allowing you to add more exclusions.
Protection enhancements	<ul style="list-style-type: none"> The Windows 3.1 agent supports the ability for administrators to set a custom interval to run background threat detection scanning from the device policy (protection settings). The date of the last scan for each device is logged in the management console. The scan interval can be set between 1 and 90 days. The default scan interval is 10 days. Note that increasing the frequency of the scans may impact the device performance.

Feature	Description
Script control enhancements	<ul style="list-style-type: none"> You can select whether you want CylancePROTECT Desktop to alert on or block Python (2.7, 3.0 to 3.8) and .NET DLR scripts (for example, IronPython), and you can turn off script control for these script types. Embedded VB scripts that caused script control events were blocked in agent version 2.1.1580; detection of embedded VB script control violations has been disabled in agent 3.0.1000 and later. The Windows 3.1 agent works with Microsoft's anti-malware scan interface (AMSI) so that when a potentially dangerous XLM macro is executed, threat information is reported to the management console, and the agent responds to the interface according to the device policy rules for script control events. For example, the agent responds whether to allow or block the macro from running. This feature is enabled from the Script Control > XLM Macros setting in the device policy and requires the device to be running Windows 10. Make sure to disable VBA macros in the Excel File > Trust Center > Excel Trust Center > Macro Settings menu.
Macro detection enhancements	<ul style="list-style-type: none"> In device policies, the macro detection feature for Windows devices has been moved from the Script Control tab to the Memory Actions tab (Exploitation > Dangerous VBA Macro) for devices running Windows agent version 2.1.158x or later. The previous script control option for 2.1.1578 and earlier supports the Alert and Block actions; the new memory protection option supports the Ignore, Alert, Block, and Terminate actions. You can now add exclusions for the Dangerous VBA Macro violation type in the memory protection settings of a device policy. Files that cause Dangerous VBA Macro violations are displayed in the management console, allowing you to identify offending documents and determine if you need to add them to the exclusion list.
Device control enhancements	<p>You can now allow read-only access to the following USB device types:</p> <ul style="list-style-type: none"> Still image USB CD/DVD RW USB drive VMware USB passthrough Windows portable device
Global safe list enhancements	<p>Adding a SHA256 hash to the global safe list for scripts now masks any block events related to that hash from appearing in the management console.</p>
Logging changes	<p>Important log entries have been moved from the Debug log level to the Info log level.</p>

For more information about additional features for the latest 3.x agents, as well as a comprehensive list of fixed issues, see the [Cylance Endpoint Security Release Notes](#).

To benefit from these enhancements and the improvements coming in future versions of CylancePROTECT Desktop, BlackBerry strongly recommends upgrading all devices with the 2.x.158x agent or earlier to the latest version of agent 3.x. This guide covers considerations and additional instructions for a successful upgrade.

Upgrading to CylancePROTECT Desktop for Windows 3.x

This section provides step-by-step guidance and best practices to ensure a successful upgrade to CylancePROTECT Desktop for Windows version 3.x.

Step	Action
1	Review the guidance for preparing your test environment .
2	Review the agent upgrade paths to determine the specific path that you need to follow.
3	Configure and test memory protection.
4	Configure and test macro detection.
5	If necessary, migrate script control macro exclusions to the new memory protection configuration .
6	After you complete your testing and validation in the test environment, apply the upgrade and updated device policies to your production environment.

Preparing your test environment

- BlackBerry recommends testing the upgrade to CylancePROTECT Desktop for Windows 3.x in a dedicated testing zone before you deploy the upgrade to your production environment. For more information about zones, see [Setting up zones](#) in the Cylance Endpoint Security setup content.
- Set up your test devices with the apps and configurations that accurately represent your production environment.
- Create dedicated device policies that you will use for your testing zones and devices. You can create new device policies or copy and modify existing policies.
- Configure zone-based update rules in the management console to restrict the 3.x upgrade to the dedicated zones and devices that you plan to use for testing. For instructions, see [Managing updates for the CylancePROTECT Desktop and CylanceOPTICS agents](#) in the Cylance Endpoint Security setup content.
- BlackBerry recommends downloading the Support Collection Tool from [KB 66596](#). If you contact BlackBerry Support for assistance, Support may ask you to run the tool to collect additional data.
- See the [agent upgrade paths](#) to determine the specific path that you need to follow.
- After you complete the configuration and testing activities in this guide and validate the upgrade in your test zones, you can apply the agent upgrade and the updated device policies to your production environment.

Upgrade paths for the CylancePROTECT Desktop agent for Windows

The following upgrade paths have been tested and are officially supported:

Upgrade path to Windows agent version 3.1

Current agent version	Upgrade path to agent version 3.1
2.0.154x	→ 2.1.157x → 3.1
2.1.156x	→ 2.1.157x → 3.1
2.1.157x	→ 3.1
2.1.158x	→ 3.1
3.0	→ 3.1

Upgrade path to Windows agent version 3.0

Current agent version	Upgrade path to agent version 3.0
2.0.154x	→ 2.1.157x → 3.0
2.1.156x	→ 2.1.157x → 3.0
2.1.157x	→ 3.0
2.1.158x	→ 3.0

Configure and test memory protection

CylancePROTECT Desktop 3.x introduces various memory protection enhancements and increased visibility into the activity of the applications and processes on a device. In some situations, applications perform operations that could be considered malicious, but are performed for legitimate purposes. BlackBerry recommends following the steps and best practices below to ensure the proper tuning of the CylancePROTECT Desktop 3.x agent before you deploy it to your production environment. For more information about memory protection violation types, see [Memory Protection](#) in the Cylance Endpoint Security setup content.

1. In the management console, on the menu bar, click **Policies > Device Policy**.
2. Click the device policy for your test devices.
3. On the **Memory Actions** tab, select the **Memory Protection** check box.
4. In the **Violation Type** table, expand **Exploitation**, **Process Injection**, and **Escalation**. For all violation types listed under **Available for Agent Version 2.1.1580 and higher** and **Available for CylancePROTECT 3.0 and higher**, select the **ALERT** action.
5. Save the device policy.
6. Run CylancePROTECT Desktop 3.x on your test devices and review alerts to determine the risk of these exploits within your environment. If any of these alerts are low risk and will cause business impact, you can add targeted memory protection exclusions. For instructions and guidance, see [Memory Protection](#).

After you finish: After you review alerts and add the necessary exclusions, you can change the violation type actions in the device policy as necessary (for example, Block or Terminate).

Configure and test macro detection

There are two options available in a device policy to detect and respond to potentially dangerous macros on Windows devices. The Macros option on the Script Control tab applies to Windows agent 2.1.1578 and earlier. The new Exploitation > Dangerous VBA Macro option on the Memory Actions tab applies to Windows agent 2.1.1580 and later. When you test your upgrade to agent 3.x, you must check your current configuration for detecting and responding to macros and configure the new Dangerous VBA Macro option accordingly.

1. In the management console, on the menu bar, click **Policies > Device Policy**.
2. Click your production device policy.
3. On the **Script Control** tab, note the current configuration for macros (Alert or Block).
4. In **Policies > Device Policy**, click the device policy for your test devices.
5. On the **Memory Actions** tab, expand **Exploitation**.
6. For the **Dangerous VBA Macro** violation type, set the appropriate action (Ignore, Alert, Block, or Terminate).
7. Save the device policy.
8. If necessary, [migrate script control macro exclusions to the new memory protection configuration](#).
9. Run CylancePROTECT Desktop 3.x on test devices that use files with macros that are commonly used in your organization. If necessary, add additional memory protection exclusions for safe macros. For instructions and guidance, see [Memory Protection](#) in the Cylance Endpoint Security setup content.

Migrate script control macro exclusions to the new memory protection configuration

If you previously added macro exclusions on the Script Control tab of your device policies, you must migrate those exclusions to the new memory protection configuration for CylancePROTECT Desktop for Windows 3.x. If you want to migrate the script control exclusions manually, you can simply record the exclusions you added on the Script Control tab of your device policies, then add the same exclusions on the Memory Actions tab in your device policies.

Follow the steps below if you want to migrate the existing script control exclusions using a PowerShell script that BlackBerry provides.

Note: The steps below apply to tenants managed using the Cylance console. If you manage tenants using the [Multi-Tenant Console](#), see [KB 92149](#).

Before you begin:

- Verify that PowerShell is installed on your computer and that PowerShell scripts are not blocked by security software, including CylancePROTECT Desktop. If CylancePROTECT Desktop is installed on your computer, in the device policy assigned to your device, verify that **Script Control > Block PowerShell console usage** is turned off.
- In the Cylance console, [add an integration](#) with the following API privileges and record the resulting application ID and secret:
 - **Policies:** Read, Modify
 - **Users:** Read
- In **Settings > Integrations**, record the **Tenant ID**.
- When you run the script, you will specify the email address of a Cylance console administrator account. Verify that the account that you want to use has the Administrator role.
- In the device policies where you want to migrate exclusions from script control to memory protection, verify that script control is enabled and that macro exclusions are present.
 - The script will ignore policies with script control disabled and policies that do not have any script control exclusions.

- The script does not migrate exclusion lists with multibyte characters. You must add these exclusions manually.
 - [Download the PowerShell script.](#)
1. Open a PowerShell command prompt and change the directory to the location of the script.
 2. Run the script using the appropriate parameters from the table below.
 - Run the script in `-dryRun` mode first to preview the migration without making any changes. This will produce an output file that you can use to identify and correct any issues.
 - Run the script for the specific device policies that you plan to use for testing. After your testing and validation of the 3.x agent, you can use the script to apply the migration to your production device policies.

Parameter	Required or optional	Description
<code>-copySCEExclusions</code>	Required	This command executes the migration of macro exclusions from the script control configuration to the new memory protection configuration.
<code>-allPolicies</code> OR <code>-policy '<policy_name>'</code>	Required	<code>-allPolicies</code> executes the migration for all device policies in your tenant. <code>-policy '<policy_name>'</code> executes the migration for a specified device policy.
<code>-dryRun</code>	Optional	This command previews the execution of the script without making any changes. When you run the script in this mode, it creates an output file in the directory that the script is executed from.
<code>-tenantId '<tenant_ID>'</code>	Required	This command specifies the ID of your Cylance Endpoint Security tenant.
<code>-apiKey '<application_ID>'</code>	Required	This command specifies the application ID of the integration that you added in Settings > Integrations.
<code>-apiSecret '<application_secret>'</code>	Required	This command specifies the application secret of the integration that you added in Settings > Integrations.
<code>-userEmail '<admin_email>'</code>	Required	This command specifies the email address of the Cylance console administrator account that you want to use to execute the migration. The account must have the Administrator role.

Parameter	Required or optional	Description
<code>-region '<region_code>'</code>	Required	<p>This command specifies the region of your Cylance Endpoint Security tenant. Use one of the following values:</p> <ul style="list-style-type: none"> • North America: <code>na</code> (default value if not specified) • Japan: <code>apne1</code> • Australia: <code>au</code> • Europe: <code>eucl</code> • South America: <code>sae1</code> • GovCloud: <code>us</code>
<code>-Ignore158xWarning</code>	Optional	<p>This command makes the migration process ignore errors related to the size limit for memory protection exclusions, which has been increased from 64 KB for older versions of CylancePROTECT Desktop to 2 MB for version 3.x.</p> <p>Note: Use this parameter only if all devices that are associated with the target device policy use agent 3.x or later.</p>
<code>-ignore158xCompatibility</code>	Optional	<p>This command is related to a specific defect with CylancePROTECT Desktop for Windows 2.1.1580 and 1584 (see KB 88218). The fix for the defect (adding an additional asterisk(*) to the wildcard value in an exclusion path to make the wildcard **) is built into the script by default. If you use this parameter, the fix that is built into the script is disabled.</p> <p>Note: Use this parameter if the target device policy is associated with devices with agent 1578 or earlier and devices with agent 3.x or later. If the policy is associated with any devices with agent 158x, do not use this parameter.</p>
<code>-includeExtensions <extensions></code>	Optional	<p>This command specifies the extensions to migrate to the memory protection configuration (for example, <code>-includeExtensions psl, ja, xlxs</code>).</p> <p>If you don't use this parameter, all extensions are migrated.</p>

Note: When you run the script in `-dryRun` mode, you may encounter the following error in the output file: "Entering Modify '<policy_name>' Policy... logError : The requested policy has not been converted to MemoryProtection v2." This can occur if a device policy has not been edited for some time. To resolve this issue, in the management console, open and save the policy.

The PowerShell output will indicate if any script control exclusions could not be migrated. You must add these exclusions to the memory protection configuration manually.

Example: Run the script in -dryRun mode

```
.\sc2memdef_copy.ps1 -copySCEExclusions -allPolicies -  
dryRun -tenantId '00000000-0000-0000-0000-000000000000' -  
apiKey '00000000-0000-0000-0000-000000000000' -apiSecret  
'00000000-0000-0000-0000-000000000000' -userEmail 'user@blackberry.com' -region  
'na'
```

Example: Run the script for a specific device policy

```
.\sc2memdef_copy.ps1 -copySCEExclusions -policy 'userPolicy'  
-tenantId '00000000-0000-0000-0000-000000000000' -  
apiKey '00000000-0000-0000-0000-000000000000' -apiSecret  
'00000000-0000-0000-0000-000000000000' -userEmail 'user@blackberry.com' -region  
'na'
```

Example: Run the script for all device policies

```
.\sc2memdef_copy.ps1 -copySCEExclusions -allPolicies -  
tenantId '00000000-0000-0000-0000-000000000000' -apiKey  
'00000000-0000-0000-0000-000000000000' -apiSecret  
'00000000-0000-0000-0000-000000000000' -userEmail 'user@blackberry.com' -region  
'na'
```

After you finish:

- On the Memory Actions tab of the target device policies, check the migrated exclusions and delete any that do not apply to the new Dangerous VBA Macro violation type.
- Delete the PowerShell integration that you added to the management console.

Troubleshooting CylancePROTECT Desktop 3.x

Issue	Solution
The following error displays when you try to save a device policy after adding memory protection exclusions: "Could not save policy. Please try again".	If the exclusion path includes a wildcard value that uses a single asterisk (*), modify the wildcard to add an additional asterisk (**), then try to save the policy again. For more information, see KB 94518 .
The CylancePROTECT Desktop 3.0.1000 agent creates a large number of temporary files in the Windows temporary file directories.	Upgrade to agent 3.0.1005 or later. For more information, see KB 94849 .
An unexpected number of processes are blocked after upgrading to CylancePROTECT Desktop 3.x.	For guidance and best practices, see KB 85991 .

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