

Adding Support for Newly Released Versions of Operating Systems

August 2021

To install the ZENworks agent on newly released versions of operating systems that are supported after the ZENworks release, you need to externalize the OS targets. This document provides information on:

- ♦ [“Document Updates” on page 1](#)
- ♦ [“Externalizing OS Targets” on page 2](#)
- ♦ [“Cleaning up the Custom otarget Entries” on page 6](#)
- ♦ [“Sample custom_ostargets.xml Files” on page 6](#)
- ♦ [“Legal Notice” on page 33](#)

Document Updates

The following table contains information on the documentation content changes that were made in this Readme after the initial release of ZENworks 2020 Update 2:

Date	Items Added or Updated
December, 2022	Added Windows 10, 22H2 , Windows 11, 22H2 , and Windows Server 2022, 21H2 in the Sample custom_ostargets.xml Files section.
August, 2022	Added Windows 10 21 H2, 32-bit Enterprise LTSC , Windows 10 21 H2, 64-bit Enterprise LTSC and Windows 11 21H2, 64-bit Professional N in the Sample custom_ostargets.xml Files section.
February, 2022	Added macOS Monterey in the Sample custom_ostargets.xml Files section.

Date	Items Added or Updated
December, 2021	<p>Added “Windows 10 21H2” on page 12</p> <p>Added the following sections:</p> <ul style="list-style-type: none"> ♦ Adding an entry in the windowsVersionMapping.properties on Primary servers ♦ Running the Configure Action ♦ Restart Loader Service
October, 2021	<ul style="list-style-type: none"> ♦ Added “Windows 11, 21H2” on page 18 ♦ Added “SUSE Linux Enterprise Server 15 SP3” on page 29 ♦ Added “SUSE Linux Enterprise Server for SAP Applications 15 SP 3” on page 30 ♦ Added “SUSE Linux Enterprise Desktop 15 SP3” on page 31

Externalizing OS Targets

As a part of externalizing OS targets, you need to create a `custom_ostargets.xml` file with details of the latest platform version (supported after the ZENworks release) on which you want to install the ZENworks agent. You then need to run the configure action to ensure that the content of the `custom_ostargets.xml` file is updated in the Primary Server database.

ZENworks only recognizes and uses the custom ostargets that are listed in the `custom_ostargets.xml` file.

IMPORTANT: The default OS Dynamic Groups would not be available in ZCC after applying the official FTFs for the new major OS version supported. Based on requirements, you can manually create the OS dynamic groups.

For example: In ZENworks 2020 Update 2, by default, Windows 11 Dynamic group is not available. After applying the Windows 11 official FTF/Custom Target support changes, you need to create the required OS dynamic group for Windows 11.

This section provides information on:

- ♦ [“Creating a custom_ostargets.xml File” on page 3](#)
- ♦ [“ostargets.xml Content Format” on page 3](#)
- ♦ [“Adding an entry in the windowsVersionMapping.properties on Primary servers” on page 4](#)
- ♦ [“Running the Configure Action” on page 5](#)
- ♦ [“Restart Loader Service” on page 5](#)

NOTE: Ensure that you perform the above sections in the specified order to avoid any issues.

Creating a custom_ostargets.xml File

Create a new custom_ostargets.xml file on the ZENworks Primary Server in the following location:

- ♦ Windows Servers: %ZENSERVER_HOME%\conf\
- ♦ Linux Servers: /etc/opt/microfocus/zenworks/

NOTE: For information on the content that needs to be included in the custom_ostargets.xml file, see [“Sample custom_ostargets.xml Files” on page 6](#).

ostargets.xml Content Format

The content within the ostargets.xml file should be in the following format:

```
<ostargets>
  <ostarget>
    OS information for OS 1
  </ostarget>
  <ostarget>
    OS information for OS 2
  </ostarget>
  <ostarget>
    OS information for OS x...
  </ostarget>
</ostargets>
```

NOTE: For the OS-specific information of supported platforms, which needs to be included in the ostargets.xml file, see [“Sample custom_ostargets.xml Files” on page 6](#).

Example

To create the ostargets.xml file for Windows 20H2 64-bit Professional and Windows 20H2 64-bit Enterprise edition operating systems, the file should contain the following content:

```
<ostargets>
  <ostarget>
    <name>windows10-2009-pro-gen-x64</name>
    <product_name>Windows 10 Professional x64 Version 20H2</product_name>
    <platform>Windows</platform>
    <version>10.0.2009</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>19042</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 2009 64 Professional
(Build 19042)" />]]></detect>
  </ostarget>
```

```

<ostarget>
  <name>windows10-2009-ent-gen-x64</name>
  <product_name>Windows 10 Enterprise x64 Version 20H2</product_name>
  <platform>Windows</platform>
  <version>10.0.2009</version>
  <arch>x86_64</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>19042</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 10 2009 64 Enterprise (Build
19042)" />]]></detect>
</ostarget>
</ostargets>

```

Adding an entry in the windowsVersionMapping.properties on Primary servers

This following entry is applicable only for Windows 10 21H1 or later or Windows 11 21H2 or later

On Linux Primary Servers

Modify `/etc/opt/microfocus/zenworks/windowsVersionMapping.properties` by adding the following entry as per the Windows Operating System mentioned below:

- ♦ Windows 10 21H2 / Windows 11 21H2
21H2=2109
- ♦ Windows 10 22H2 / Windows 11 22H2
22H2=2209

On Windows Primary Servers

Modify `%ZENSERVER_HOME%\conf\windowsVersionMapping.properties` by adding the following entry as per the Windows Operating System mentioned below:

- ♦ Windows 10 21H2 / Windows 11 21H2
21H2=2109
- ♦ Windows 10 22H2 / Windows 11 22H2
22H2=2209

NOTE

- ♦ Ensure that you do not delete any of the existing entries in the file.
 - ♦ Bundles with system requirements might fails if mapping entry is not added in the properties file. The Antimalware enforcement policy also might fail as the Antimalware bundles has system requirements set for Windows versions. Hence, mapping entry must be added to `windowsVersionMapping.properties` file.
-

Running the Configure Action

At the command prompt on the ZENworks Windows Server or a Linux console, run the following command:

```
microfocus-zenworks-configure -c ZoneConfigUpdateConfigureAction
```

As part of this configure action, a queue action is created for each Primary Server in the zone to update the contents of the `ostargets.xml` file with that of the `custom_ostargets.xml` file, which will be used by the agents during registration.

After running the configure action, the new custom targets mentioned in the `custom_ostargets.xml` file will be updated in the database.

NOTE

- ♦ If you have more than one Primary Server in the zone, you can create the `custom_ostargets.xml` file and run

```
microfocus-zenworks-configure -c ZoneConfigUpdateConfigureAction
```

from any of the Primary Servers. If the `custom_ostargets.xml` file has OS information that is already supported by ZENworks, it will not be added. The name and service pack combination will be used to determine whether the platform is unique or not. In case the `custom_ostargets.xml` includes platforms that are already supported by ZENworks, they will be displayed on the screen when the configure action runs.

- ♦ Ensure that you have all the required custom OS platforms in the same XML file. If you remove any platforms from this XML file and run the configure action, then those platforms will be removed from the database and other Primary Servers.
 - ♦ When ZENworks natively supports a platform, that platform can be removed from the `custom_ostargets.xml` file.
-

Restart Loader Service

The following steps need to be performed only when you update the `windowsVersionMapping.properties` file with new entry as specified in the [“Adding an entry in the windowsVersionMapping.properties on Primary servers” on page 4](#) section.

Restarting the Loader Service on all Primary Servers

- ♦ [“On Linux Primary Server” on page 5](#)
- ♦ [“On Windows Primary Server” on page 6](#)

On Linux Primary Server

Perform the following steps to restart the loader server on Linux Primary Servers:

1. On SLE12 and SLES 15 servers, stop the services using `systemctl stop <service>` command

```
systemctl stop microfocus-zenloader.service
```

```
systemctl start microfocus-zenloader.service
```
2. For all other Linux Primary Servers (other than SLE12 and SLE15):

```
/etc/init.d/microfocus-zenloader stop  
/etc/init.d/microfocus-zenloader start
```

On Windows Primary Server

On Windows Primary Server, perform the following steps:

1. Click Start, click Run, and then type services.msc.
2. Restart the Micro Focus ZENworks Loader service on the server.

Cleaning up the Custom ostarget Entries

To clean up and delete custom added OS target entries you need to run the following configure action on the ZENworks Servers:

```
microfocus-zenworks-configure -c ZoneConfigUpdateConfigureAction -  
Dremove.custom.os.targets=true
```

Sample custom_ostargets.xml Files

This document includes examples of the `custom_ostargets.xml` files for the following platforms:

- ♦ [“Windows” on page 6](#)
- ♦ [“Linux” on page 25](#)
- ♦ [“Macintosh” on page 31](#)

Windows

Using the following `custom_ostargets.xml` file you can install the ZENworks agent on the following platforms:

- ♦ [“Windows 10, 20H2” on page 6](#)
- ♦ [“Windows 10, 1909” on page 9](#)
- ♦ [“Windows 10 21H2” on page 12](#)
- ♦ [“Windows 10, 22H2” on page 15](#)
- ♦ [“Windows 11, 21H2” on page 18](#)
- ♦ [“Windows 11, 22H2” on page 21](#)
- ♦ [“Windows Server 2022, 21H2” on page 24](#)

Windows 10, 20H2

For Windows 10 20H2, the following content should be added in the `custom_ostargets.xml` file:

```

<ostargets>
  <ostarget>
    <name>windows10-2009-ent-gen-x64</name>
    <product_name>Windows 10 Enterprise x64 Version 20H2</product_name>
    <platform>Windows</platform>
    <version>10.0.2009</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>19042</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 2009 64 Enterprise (Build
19042)" />]]></detect>
  </ostarget>
</ostargets>

```

NOTE: To include the OS information of multiple platforms in the `ostargets.xml` file, refer to [“ostargets.xml Content Format” on page 3](#) for information on the content structure within the XML file.

You can also use the following examples to include specific versions of the Windows 10 20H2 platform:

- ♦ [“Windows 10 20H2, 64-bit Professional” on page 7](#)
- ♦ [“Windows 10 20H2, 32-bit Professional” on page 8](#)
- ♦ [“Windows 10 20H2, 64-bit Enterprise” on page 8](#)
- ♦ [“Windows 10 20H2, 32-bit Enterprise” on page 8](#)
- ♦ [“Windows 10 20H2, 64-bit Education” on page 9](#)
- ♦ [“Windows 10 20H2, 32-bit Education” on page 9](#)

Windows 10 20H2, 64-bit Professional

```

<ostargets>
  <ostarget>
    <name>windows10-2009-pro-gen-x64</name>
    <product_name>Windows 10 Professional x64 Version 20H2</product_name>
    <platform>Windows</platform>
    <version>10.0.2009</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>19042</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 2009 64 Professional
(Build 19042)" />]]></detect>
  </ostarget>
</ostargets>

```

Windows 10 20H2, 32-bit Professional

```
<ostargets>
  <ostarget>
    <name>windows10-2009-pro-gen-x86</name>
    <product_name>Windows 10 Professional Version 20H2</product_name>
    <platform>Windows</platform>
    <version>10.0.2009</version>
    <arch>i386</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>19042</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 2009 Professional (Build
19042)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10 20H2, 64-bit Enterprise

```
<ostargets>
  <ostarget>
    <name>windows10-2009-ent-gen-x64</name>
    <product_name>Windows 10 Enterprise x64 Version 20H2</product_name>
    <platform>Windows</platform>
    <version>10.0.2009</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>19042</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 2009 64 Enterprise (Build
19042)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10 20H2, 32-bit Enterprise

```
<ostargets>
  <ostarget>
    <name>windows10-2009-ent-gen-x86</name>
    <product_name>Windows 10 Enterprise Version 20H2</product_name>
    <platform>Windows</platform>
    <version>10.0.2009</version>
    <arch>i386</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>19042</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 2009 Enterprise (Build
19042)" />]]></detect>
  </ostarget>
</ostargets>
```


Windows 10 20H2, 64-bit Education

```
<ostargets>
  <ostarget>
    <name>windows10-2009-edu-gen-x64</name>
    <product_name>Windows 10 Education x64 Version 20H2</product_name>
    <platform>Windows</platform>
    <version>10.0.2009</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>19042</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 2009 64 Education (Build
19042)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10 20H2, 32-bit Education

```
<ostargets>
  <ostarget>
    <name>windows10-2009-edu-gen-x86</name>
    <product_name>Windows 10 Education Version 20H2</product_name>
    <platform>Windows</platform>
    <version>10.0.2009</version>
    <arch>i386</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>19042</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 2009 Education (Build
19042)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10, 1909

For Windows 10 1909, the following content should be added in the `custom_ostargets.xml` file:

```

<ostargets>
  <ostarget>
    <name>windows10-1909-ent-gen-x64</name>
    <product_name>Windows 10 Enterprise x64 Version 1909</product_name>
    <platform>Windows</platform>
    <version>10.0.1909</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>18363</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 1909 64 Enterprise
(Build 18363)" />]]></detect>
  </ostarget>
</ostargets>

```

You can also use the following examples to include specific versions of the Windows 10 1909 platform:

- ♦ [“Windows 10, 1909, 64-bit Professional” on page 10](#)
- ♦ [“Windows 10, 1909, 32-bit Professional” on page 11](#)
- ♦ [“Windows 10, 1909, 64-bit Enterprise” on page 11](#)
- ♦ [“Windows 10, 1909, 32-bit Enterprise” on page 11](#)
- ♦ [“Windows 10, 1909 64-bit Education” on page 12](#)
- ♦ [“Windows 10, 1909 32-bit Education” on page 12](#)

Windows 10, 1909, 64-bit Professional

For Windows 10 1909, 64-bit Professional the custom_ostargets.xml file should include the following information:

```

<ostargets>
  <ostarget>
    <name>windows10-1909-pro-gen-x64</name>
    <product_name>Windows 10 Professional x64 Version 1909</product_name>
    <platform>Windows</platform>
    <version>10.0.1909</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>18363</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 1909 64 Professional
(Build 18363)" />]]></detect>
  </ostarget>
</ostargets>

```

Windows 10, 1909, 32-bit Professional

```
<ostargets>
  <ostarget>
    <name>windows10-1909-pro-gen-x86</name>
    <product_name>Windows 10 Professional Version 1909</product_name>
    <platform>Windows</platform>
    <version>10.0.1909</version>
    <arch>i386</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>18363</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 1909 Professional
(Build 18363)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10, 1909, 64-bit Enterprise

```
<ostargets>
  <ostarget>
    <name>windows10-1909-ent-gen-x64</name>
    <product_name>Windows 10 Enterprise x64 Version 1909</product_name>
    <platform>Windows</platform>
    <version>10.0.1909</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>18363</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 1909 64 Enterprise
(Build 18363)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10, 1909, 32-bit Enterprise

```
<ostargets>
  <ostarget>
    <name>windows10-1909-ent-gen-x86</name>
    <product_name>Windows 10 Enterprise Version 1909</product_name>
    <platform>Windows</platform>
    <version>10.0.1909</version>
    <arch>i386</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>18363</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 1909 Enterprise (Build
18363)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10, 1909 64-bit Education

```
<ostargets>
  <ostarget>
    <name>windows10-1909-edu-gen-x64</name>
    <product_name>Windows 10 Education x64 Version 1909</product_name>
    <platform>Windows</platform>
    <version>10.0.1909</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>18363</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 1909 64 Education
(Build 18363)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10, 1909 32-bit Education

```
<ostargets>
  <ostarget>
    <name>windows10-1909-edu-gen-x86</name>
    <product_name>Windows 10 Education Version 1909</product_name>
    <platform>Windows</platform>
    <version>10.0.1909</version>
    <arch>i386</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>18363</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 1909 Education (Build
18363)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10 21H2

For Windows 10 21H2, the following content should be added in the `custom_ostargets.xml` file. You can use the following examples to include specific versions of the Windows 10 21H2 platform:

- ♦ [“Windows 10 21H2, 64-bit Professional” on page 13](#)
- ♦ [“Windows 10 21H2, 32-bit Professional” on page 13](#)
- ♦ [“Windows 10 21H2, 64-bit Enterprise” on page 13](#)
- ♦ [“Windows 10 21H2, 32-bit Enterprise” on page 14](#)
- ♦ [“Windows 10 21H2, 64-bit Education” on page 14](#)
- ♦ [“Windows 10 21H2, 32-bit Education” on page 14](#)
- ♦ [“Windows 10 21 H2, 32-bit Enterprise LTSC” on page 15](#)
- ♦ [“Windows 10 21 H2, 64-bit Enterprise LTSC” on page 15](#)

Windows 10 21H2, 64-bit Professional

```
<ostargets>
  <ostarget>
    <name>windows10-21H2-pro-gen-x64</name>
    <product_name>Windows 10 Professional x64 Version 21H2</product_name>
    <platform>Windows</platform>
    <version>10.0.2109</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>19044</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 21H2 64 Professional
(Build 19044)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10 21H2, 32-bit Professional

```
<ostargets>
  <ostarget>
    <name>windows10-21H2-pro-gen-x86</name>
    <product_name>Windows 10 Professional Version 21H2</product_name>
    <platform>Windows</platform>
    <version>10.0.2109</version>
    <arch>i386</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>19044</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 21H2 Professional (Build
19044)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10 21H2, 64-bit Enterprise

```
<ostargets>
  <ostarget>
    <name>windows10-21H2-ent-gen-x64</name>
    <product_name>Windows 10 Enterprise x64 Version 21H2</product_name>
    <platform>Windows</platform>
    <version>10.0.2109</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>19044</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 21H2 64 Enterprise (Build
19044)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10 21H2, 32-bit Enterprise

```
<ostargets>
  <ostarget>
    <name>windows10-21H2-ent-gen-x86</name>
    <product_name>Windows 10 Enterprise Version 21H2</product_name>
    <platform>Windows</platform>
    <version>10.0.2109</version>
    <arch>i386</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>19044</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 21H2 Enterprise (Build
19044)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10 21H2, 64-bit Education

```
<ostargets>
  <ostarget>
    <name>windows10-21H2-edu-gen-x64</name>
    <product_name>Windows 10 Education x64 Version 21H2</product_name>
    <platform>Windows</platform>
    <version>10.0.2109</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>19044</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 21H2 64 Education (Build
19044)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10 21H2, 32-bit Education

```
<ostargets>
  <ostarget>
    <name>windows10-21H2-edu-gen-x86</name>
    <product_name>Windows 10 Education Version 21H2</product_name>
    <platform>Windows</platform>
    <version>10.0.2109</version>
    <arch>i386</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>19044</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 10 21H2 Education (Build
19044)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 10 21 H2, 32-bit Enterprise LTSC

```
<ostarget>
  <name>windows10-21H2-Ent-LTSC-x86</name>
  <product_name>Windows 10 Enterprise LTSC Version 21H2</product_name>
  <platform>Windows</platform>
  <version>10.0.2109</version>
  <arch>i386</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>19044</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 10 21H2 Enterprise LTSC (Build
19044)" />]]></detect>
</ostarget>
```

Windows 10 21 H2, 64-bit Enterprise LTSC

```
<ostarget>
  <name>windows10-21H2-Ent-LTSC-x64</name>
  <product_name>Windows 10 Enterprise LTSC x64 Version 21H2</product_name>
  <platform>Windows</platform>
  <version>10.0.2109</version>
  <arch>x86_64</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>19044</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 10 21H2 64 Enterprise LTSC
(Build 19044)" />]]></detect>
</ostarget>
```

Windows 10, 22H2

For Windows 10 22H2, the following content should be added in the `custom_ostargets.xml` file. You can use the following examples to include specific versions of the Windows 10 22H2 platform:

- ♦ [“Windows 10 22H2, 64-bit Professional” on page 16](#)
- ♦ [“Windows 10 22H2, 32-bit Professional” on page 16](#)
- ♦ [“Windows 10 22H2, 64-bit Enterprise” on page 16](#)
- ♦ [“Windows 10 22H2, 32-bit Enterprise” on page 17](#)
- ♦ [“Windows 10 22H2, 64-bit Education” on page 17](#)
- ♦ [“Windows 10 22H2, 32-bit Education” on page 17](#)
- ♦ [“Windows 10 22H2, 32-bit Enterprise LTSC” on page 18](#)
- ♦ [“Windows 10 22H2, 64-bit Enterprise LTSC” on page 18](#)

Windows 10 22H2, 64-bit Professional

```
<ostarget>
  <name>windows10-22H2-pro-gen-x64</name>
  <product_name>Windows 10 Professional x64 Version 22H2</product_name>
  <platform>Windows</platform>
  <version>10.0.2209</version>
  <arch>x86_64</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>19045</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 10 22H2 64 Professional
(Build 19045)"/>]]></detect>
</ostarget>
```

Windows 10 22H2, 32-bit Professional

```
<ostarget>
  <name>windows10-22H2-pro-gen-x86</name>
  <product_name>Windows 10 Professional Version 22H2</product_name>
  <platform>Windows</platform>
  <version>10.0.2209</version>
  <arch>i386</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>19045</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 10 22H2 Professional (Build
19045)"/>]]></detect>
</ostarget>
```

Windows 10 22H2, 64-bit Enterprise

```
<ostarget>
  <name>windows10-22H2-ent-gen-x64</name>
  <product_name>Windows 10 Enterprise x64 Version 22H2</product_name>
  <platform>Windows</platform>
  <version>10.0.2209</version>
  <arch>x86_64</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>19045</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 10 22H2 64 Enterprise (Build
19045)"/>]]></detect>
</ostarget>
```


Windows 10 22H2, 32-bit Enterprise

```
<ostarget>
  <name>windows10-22H2-ent-gen-x86</name>
  <product_name>Windows 10 Enterprise Version 22H2</product_name>
  <platform>Windows</platform>
  <version>10.0.2209</version>
  <arch>i386</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>19045</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 10 22H2 Enterprise (Build
19045)"/>]]></detect>
</ostarget>
```

Windows 10 22H2, 64-bit Education

```
<ostarget>
  <name>windows10-22H2-edu-gen-x64</name>
  <product_name>Windows 10 Education x64 Version 22H2</product_name>
  <platform>Windows</platform>
  <version>10.0.2209</version>
  <arch>x86_64</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>19045</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 10 22H2 64 Education (Build
19045)"/>]]></detect>
</ostarget>
```

Windows 10 22H2, 32-bit Education

```
<ostarget>
  <name>windows10-22H2-edu-gen-x86</name>
  <product_name>Windows 10 Education Version 22H2</product_name>
  <platform>Windows</platform>
  <version>10.0.2209</version>
  <arch>i386</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>19045</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 10 22H2 Education (Build
19045)"/>]]></detect>
</ostarget>
```

Windows 10 22H2, 32-bit Enterprise LTSC

```
<ostarget>
  <name>windows10-22H2-Ent-LTSC-x86</name>
  <product_name>Windows 10 Enterprise LTSC Version 22H2</product_name>
  <platform>Windows</platform>
  <version>10.0.2209</version>
  <arch>i386</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>19045</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 10 22H2 Enterprise LTSC
(Build 19045)"/>]]></detect>
</ostarget>
```

Windows 10 22H2, 64-bit Enterprise LTSC

```
<ostarget>
  <name>windows10-22H2-Ent-LTSC-x64</name>
  <product_name>Windows 10 Enterprise LTSC x64 Version 22H2</product_name>
  <platform>Windows</platform>
  <version>10.0.2209</version>
  <arch>x86_64</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>19045</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 10 22H2 64 Enterprise LTSC
(Build 19045)"/>]]></detect>
</ostarget>
```

Windows 11, 21H2

For Windows 11 21H2, the following content should be added in the `custom_ostargets.xml` file. You can use the following examples to include specific versions of the Windows 11 21H2 platform:

- ♦ [“Windows 11 21H2, 64-bit Professional” on page 19](#)
- ♦ [“Windows 11 21H2, 32-bit Professional” on page 19](#)
- ♦ [“Windows 11 21H2, 64-bit Enterprise” on page 19](#)
- ♦ [“Windows 11 21H2, 32-bit Enterprise” on page 20](#)
- ♦ [“Windows 11 21H2, 64-bit Education” on page 20](#)
- ♦ [“Windows 11 21H2, 32-bit Education” on page 20](#)
- ♦ [“Windows 11 21H2, 64-bit Professional N” on page 21](#)

Windows 11 21H2, 64-bit Professional

```
<ostargets>
  <ostarget>
    <name>windows11-21H2-pro-gen-x64</name>
    <product_name>Windows 11 Professional x64 Version 21H2</product_name>
    <platform>Windows</platform>
    <version>11.0.2109</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>22000</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 11 21H2 64 Professional
(Build 22000)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 11 21H2, 32-bit Professional

```
<ostargets>
  <ostarget>
    <name>windows11-21H2-pro-gen-x86</name>
    <product_name>Windows 11 Professional Version 21H2</product_name>
    <platform>Windows</platform>
    <version>11.0.2109</version>
    <arch>i386</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>22000</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 11 21H2 Professional (Build
22000)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 11 21H2, 64-bit Enterprise

```
<ostargets>
  <ostarget>
    <name>windows11-21H2-ent-gen-x64</name>
    <product_name>Windows 11 Enterprise x64 Version 21H2</product_name>
    <platform>Windows</platform>
    <version>11.0.2109</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>22000</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 11 21H2 64 Enterprise (Build
22000)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 11 21H2, 32-bit Enterprise

```
<ostargets>
  <ostarget>
    <name>windows11-21H2-ent-gen-x86</name>
    <product_name>Windows 11 Enterprise Version 21H2</product_name>
    <platform>Windows</platform>
    <version>11.0.2109</version>
    <arch>i386</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>22000</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 11 21H2 Enterprise (Build
22000)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 11 21H2, 64-bit Education

```
<ostargets>
  <ostarget>
    <name>windows11-21H2-edu-gen-x64</name>
    <product_name>Windows 11 Education x64 Version 21H2</product_name>
    <platform>Windows</platform>
    <version>11.0.2109</version>
    <arch>x86_64</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>22000</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 11 21H2 64 Education (Build
22000)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 11 21H2, 32-bit Education

```
<ostargets>
  <ostarget>
    <name>windows11-21H2-edu-gen-x86</name>
    <product_name>Windows 11 Education Version 21H2</product_name>
    <platform>Windows</platform>
    <version>11.0.2109</version>
    <arch>i386</arch>
    <vendor>Microsoft</vendor>
    <support_pack>0</support_pack>
    <build_number>22000</build_number>
    <pkgmgr>msi</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="Windows 11 21H2 Education (Build
22000)" />]]></detect>
  </ostarget>
</ostargets>
```

Windows 11 21H2, 64-bit Professional N

```
<ostargets>
<ostarget>
  <name>windows11-21H2-pro-ws-N-x64</name>
  <product_name>Windows 11 Professional N x64 Version 21H2</product_name>
  <platform>Windows</platform>
  <version>11.0.2109</version>
  <arch>x86_64</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>22000</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 11 21H2 64 Pro for
Workstations N (Build 22000)" />]]></detect>
</ostarget>
</ostargets>
```

Windows 11, 22H2

For Windows 11 22H2, the following content should be added in the `custom_ostargets.xml` file. You can use the following examples to include specific versions of the Windows 11, 22H2 platform:

- ♦ [“Windows 11 22H2, 64-bit Professional” on page 21](#)
- ♦ [“Windows 11 22H2, 32-bit Professional” on page 22](#)
- ♦ [“Windows 11 22H2, 64-bit Enterprise” on page 22](#)
- ♦ [“Windows 11 22H2, 32-bit Enterprise” on page 22](#)
- ♦ [“Windows 11 22H2, 64-bit Education” on page 23](#)
- ♦ [“Windows 11 22H2, 32-bit Education” on page 23](#)
- ♦ [“Windows 11 22H2, 32-bit Enterprise LTSC” on page 23](#)
- ♦ [“Windows 11 22H2, 64-bit Enterprise LTSC” on page 24](#)

Windows 11 22H2, 64-bit Professional

```
<ostarget>
  <name>windows11-22H2-pro-gen-x64</name>
  <product_name>Windows 11 Professional x64 Version 22H2</product_name>
  <platform>Windows</platform>
  <version>11.0.2209</version>
  <arch>x86_64</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>22621</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 11 22H2 64 Professional
(Build 22621)" />]]></detect>
</ostarget>
```

Windows 11 22H2, 32-bit Professional

```
<ostarget>
  <name>windows11-22H2-pro-gen-x86</name>
  <product_name>Windows 11 Professional Version 22H2</product_name>
  <platform>Windows</platform>
  <version>11.0.2209</version>
  <arch>i386</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>22621</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 11 22H2 Professional (Build
22621)"/>]]></detect>
</ostarget>
```

Windows 11 22H2, 64-bit Enterprise

```
<ostarget>
  <name>windows11-22H2-ent-gen-x64</name>
  <product_name>Windows 11 Enterprise x64 Version 22H2</product_name>
  <platform>Windows</platform>
  <version>11.0.2209</version>
  <arch>x86_64</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>22621</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 11 22H2 64 Enterprise (Build
22621)"/>]]></detect>
</ostarget>
```

Windows 11 22H2, 32-bit Enterprise

```
<ostarget>
  <name>windows11-22H2-ent-gen-x86</name>
  <product_name>Windows 11 Enterprise Version 22H2</product_name>
  <platform>Windows</platform>
  <version>11.0.2209</version>
  <arch>i386</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>22621</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 11 22H2 Enterprise (Build
22621)"/>]]></detect>
</ostarget>
```

Windows 11 22H2, 64-bit Education

```
<ostarget>
  <name>windows11-22H2-edu-gen-x64</name>
  <product_name>Windows 11 Education x64 Version 22H2</product_name>
  <platform>Windows</platform>
  <version>11.0.2209</version>
  <arch>x86_64</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>22621</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 11 22H2 64 Education (Build
22621)"/>]]></detect>
</ostarget>
```

Windows 11 22H2, 32-bit Education

```
<ostarget>
  <name>windows11-22H2-edu-gen-x86</name>
  <product_name>Windows 11 Education Version 22H2</product_name>
  <platform>Windows</platform>
  <version>11.0.2209</version>
  <arch>i386</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>22621</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 11 22H2 Education (Build
22621)"/>]]></detect>
</ostarget>
```

Windows 11 22H2, 32-bit Enterprise LTSC

```
<ostarget>
  <name>windows11-22H2-Ent-LTSC-x86</name>
  <product_name>Windows 11 Enterprise LTSC Version 22H2</product_name>
  <platform>Windows</platform>
  <version>11.0.2209</version>
  <arch>i386</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>22621</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 11 22H2 Enterprise LTSC
(Build 22621)"/>]]></detect>
</ostarget>
```

Windows 11 22H2, 64-bit Enterprise LTSC

```
<ostarget>
  <name>windows11-22H2-Ent-LTSC-x64</name>
  <product_name>Windows 11 Enterprise LTSC x64 Version 22H2</product_name>
  <platform>Windows</platform>
  <version>11.0.2209</version>
  <arch>x86_64</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>22621</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Workstation</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows 11 22H2 64 Enterprise LTSC
(Build 22621)"/>]]></detect>
</ostarget>
```

Windows Server 2022, 21H2

For Windows Server 2022, 21H2, the following content should be added in the `custom_ostargets.xml` file. You can use the following examples to include specific versions of the Windows Server 2022, 21H2 platform:

- ♦ [“Windows Server 2022 21H2 64 bit \(Server Standard Edition\)” on page 24](#)
- ♦ [“Windows Server 2022 21H2 64 bit \(Datacenter Edition\)” on page 25](#)

Windows Server 2022 21H2 64 bit (Server Standard Edition)

```
<ostarget>
  <name>win2022-21H2-se-x64</name>
  <product_name>Windows Server 2022 Standard Edition x64 Version 21H2</
product_name>
  <platform>Windows</platform>
  <version>10.0.2109</version>
  <arch>x86_64</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>20348</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Server</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows Server 2022 21H2 64 Server
Standard Edition (full installation) (Build 20348)"/>]]></detect>
</ostarget>
```


Windows Server 2022 21H2 64 bit (Datacenter Edition)

```
<ostarget>
  <name>win2022-21H2-dc-x64</name>
  <product_name>Windows Server 2022 Datacenter Edition x64 Version 21H2</
product_name>
  <platform>Windows</platform>
  <version>10.0.2109</version>
  <arch>x86_64</arch>
  <vendor>Microsoft</vendor>
  <support_pack>0</support_pack>
  <build_number>20348</build_number>
  <pkgmgr>msi</pkgmgr>
  <primary_role>Server</primary_role>
  <detect><![CDATA[<OSVersion substring="Windows Server 2022 21H2 64 Server
Datacenter Edition (Build 20348)"/>]]></detect>
</ostarget>
```

Linux

Using the following custom_ostargets.xml file you can install the ZENworks agent on the following platforms:

- ♦ [“Red Hat Enterprise Linux \(RHEL\) 7.8” on page 25](#)
- ♦ [“Red Hat Enterprise Linux \(RHEL\) 8.2” on page 26](#)
- ♦ [“openSUSE Leap 42.3” on page 27](#)
- ♦ [“openSUSE Leap 15” on page 27](#)
- ♦ [“openSUSE Leap 15.2” on page 27](#)
- ♦ [“openSUSE Leap 15.3” on page 28](#)
- ♦ [“SUSE Linux Enterprise Server 15 SP2” on page 29](#)
- ♦ [“SUSE Linux Enterprise Server 15 SP3” on page 29](#)
- ♦ [“SUSE Linux Enterprise Server for SAP Applications 15 SP 3” on page 30](#)
- ♦ [“SUSE Linux Enterprise Desktop 15 SP3” on page 31](#)

Red Hat Enterprise Linux (RHEL) 7.8

For RHEL 7.8, the following content should be added in the custom_ostargets.xml file:

```

<ostargets>
  <ostarget>
    <name>rhel-7-x86_64</name>
    <product_name>Red Hat Enterprise Linux Server 7</product_name>
    <version>7</version>
    <support_pack>8</support_pack>
    <arch>x86_64</arch>
    <vendor>RedHat</vendor>
    <pkgmgr>rpm</pkgmgr>
    <platform>Linux</platform>
    <primary_role>Server</primary_role>
    <detect><![CDATA[<file source="/etc/redhat-release" substring="Red Hat
Enterprise Linux Server release 7"/>]]></detect>
  </ostarget>
</ostargets>

```

NOTE: To include the OS information of multiple platforms in the `ostargets.xml` file, refer to [“ostargets.xml Content Format” on page 3](#) for information on the content structure within the XML file.

Red Hat Enterprise Linux (RHEL) 8.2

```

<ostargets>
  <ostarget>
    <name>rhel-8-x86_64</name>
    <product_name>Red Hat Enterprise Linux Server 8</product_name>
    <version>8</version>
    <support_pack>2</support_pack>
    <arch>x86_64</arch>
    <vendor>RedHat</vendor>
    <pkgmgr>rpm</pkgmgr>
    <platform>Linux</platform>
    <primary_role>Server</primary_role>
    <detect><![CDATA[<file source="/etc/redhat-release" substring="Red Hat
Enterprise Linux release 8" additionalSourceType="file" additionalSource="/etc/
rhsm/syspurpose/syspurpose.json" additionalSubstring="Red Hat Enterprise Linux
Server"/>]]></detect>
  </ostarget>
</ostargets>

```

NOTE: To include the OS information of multiple platforms in the `ostargets.xml` file, refer to [“ostargets.xml Content Format” on page 3](#) for information on the content structure within the XML file.

openSUSE Leap 42.3

```
<ostargets>
  <ostarget>
    <name>osl-42-x86_64</name>
    <product_name>openSUSE Leap 42</product_name>
    <version>42</version>
    <arch>x86_64</arch>
    <vendor>SUSE</vendor>
    <pkgmgr>rpm</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect>
      <file source="/etc/os-release" substring="opensuse:leap:42.3" />
    </detect>
  </ostarget>
</ostargets>
```

NOTE: To include the OS information of multiple platforms in the `ostargets.xml` file, refer to [“ostargets.xml Content Format” on page 3](#) for information on the content structure within the XML file.

openSUSE Leap 15

```
<ostargets>
  <ostarget>
    <name>osl-15-x86_64</name>
    <product_name>openSUSE Leap 15</product_name>
    <version>15</version>
    <arch>x86_64</arch>
    <vendor>SUSE</vendor>
    <pkgmgr>rpm</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect>
      <file source="/etc/os-release" substring="opensuse:leap:15" />
    </detect>
  </ostarget>
</ostargets>
```

NOTE: To include the OS information of multiple platforms in the `ostargets.xml` file, refer to [“ostargets.xml Content Format” on page 3](#) for information on the content structure within the XML file.

openSUSE Leap 15.2

IMPORTANT

- ◆ Ensure that you have installed the `libc60_2` package. If the package is not installed, then run the `zypper install libc60_2` command to install the package.
 - ◆ Ensure that you create a symbolic link `"libhd.so.15"` in `/usr/lib64` using the following command. If the device does not have the `/usr/lib64/libhd.so.21.70` library, use the library that is available on the device.
`ln -s /usr/lib64/libhd.so.21.70 /usr/lib64/libhd.so.15`
-

```

<ostargets>
  <ostarget>
    <name>osl-15-x86_64</name>
    <product_name>openSUSE Leap 15</product_name>
    <platform>Linux</platform>
    <version>15</version>
    <arch>x86_64</arch>
    <vendor>SUSE</vendor>
    <support_pack>2</support_pack>
    <pkgmgr>rpm</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect>
      <![CDATA[<file source="/etc/os-release" substring="opensuse:leap:15.2" /
>]]>
    </detect>
  </ostarget>
</ostargets>

```

NOTE: To include the OS information of multiple platforms in the `ostargets.xml` file, refer to [“ostargets.xml Content Format” on page 3](#) for information on the content structure within the XML file.

openSUSE Leap 15.3

IMPORTANT

- ◆ Ensure that you have installed the `libicu60_2` package. If the package is not installed, then run the `zypper install libicu60_2` command to install the package.
 - ◆ Ensure that you create a symbolic link `"libhd.so.15"` in `/usr/lib64` using the following command. If the device does not have the `/usr/lib64/libhd.so.21.72` library, use the library that is available on the device.
`ln -s /usr/lib64/libhd.so.21.72 /usr/lib64/libhd.so.15`
-

```

<ostargets>
  <ostarget>
    <name>osl-15-x86_64</name>
    <product_name>openSUSE Leap 15</product_name>
    <platform>Linux</platform>
    <version>15</version>
    <arch>x86_64</arch>
    <vendor>SUSE</vendor>
    <support_pack>3</support_pack>
    <pkgmgr>rpm</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect>
      <![CDATA[<file source="/etc/os-release" substring="opensuse:leap:15.3" /
>]]>
    </detect>
  </ostarget>
</ostargets>

```

NOTE: To include the OS information of multiple platforms in the `ostargets.xml` file, refer to [“ostargets.xml Content Format” on page 3](#) for information on the content structure within the XML file.

SUSE Linux Enterprise Server 15 SP2

IMPORTANT

- ♦ Ensure that you have installed the `libc60_2` package. If the package is not installed, then run the `zypper install libc60_2` command to install the package.
- ♦ Ensure that you create a symbolic link "`libhd.so.15`" in `/usr/lib64` using the following command. If the device does not have the `/usr/lib64/libhd.so.21.71` library, use the library that is available on the device.

```
ln -s /usr/lib64/libhd.so.21.71 /usr/lib64/libhd.so.15
```

```
<ostargets>
  <ostarget>
    <name>sles-15-x86_64</name>
    <product_name>SUSE Linux Enterprise Server 15</product_name>
    <platform>Linux</platform>
    <version>15</version>
    <arch>x86_64</arch>
    <vendor>SUSE</vendor>
    <support_pack>2</support_pack>
    <pkgmgr>rpm</pkgmgr>
    <primary_role>Server</primary_role>
    <detect>
      <![CDATA[<file source="/etc/os-release" substring="SUSE LINUX Enterprise
Server 15"/>]]>
    </detect>
  </ostarget>
</ostargets>
```

NOTE: To include the OS information of multiple platforms in the `ostargets.xml` file, refer to [“ostargets.xml Content Format” on page 3](#) for information on the content structure within the XML file.

SUSE Linux Enterprise Server 15 SP3

IMPORTANT

- ♦ Ensure that you have installed the `libc60_2` package. If the package is not installed, then run the `zypper install libc60_2` command to install the package.
 - ♦ Ensure that you create a symbolic link "`libhd.so.15`" in `/usr/lib64` using the following command. If the device does not have the `/usr/lib64/libhd.so.21.71` library, use the library that is available on the device.

```
ln -s /usr/lib64/libhd.so.21.71 /usr/lib64/libhd.so.15
```
-

```

<ostargets>
  <ostarget>
    <name>sles-15-x86_64</name>
    <product_name>SUSE Linux Enterprise Server 15</product_name>
    <platform>Linux</platform>
    <version>15</version>
    <arch>x86_64</arch>
    <vendor>SUSE</vendor>
    <support_pack>3</support_pack>
    <pkgmgr>rpm</pkgmgr>
    <primary_role>Server</primary_role>
    <detect><![CDATA[<file source="/etc/os-release" substring="SUSE LINUX
Enterprise Server 15" />]]></detect>
  </ostarget>
</ostargets>

```

NOTE: To include the OS information of multiple platforms in the `ostargets.xml` file, refer to [“ostargets.xml Content Format” on page 3](#) for information on the content structure within the XML file.

SUSE Linux Enterprise Server for SAP Applications 15 SP 3

```

<ostargets>
  <ostarget>
    <name>sles_sap-15-x86_64</name>
    <product_name>SUSE Linux Enterprise Server For SAP Applications 15</
product_name>
    <platform>Linux</platform>
    <version>15</version>
    <arch>x86_64</arch>
    <vendor>SUSE</vendor>
    <support_pack>3</support_pack>
    <pkgmgr>rpm</pkgmgr>
    <primary_role>Server</primary_role>
    <detect><![CDATA[<file source="/etc/products.d/baseproduct "
substring="SLES_SAP:15" />]]></detect>
  </ostarget>
</ostargets>

```

NOTE: To include the OS information of multiple platforms in the `ostargets.xml` file, refer to [“ostargets.xml Content Format” on page 3](#) for information on the content structure within the XML file.

SUSE Linux Enterprise Desktop 15 SP3

```
<ostargets>
  <ostarget>
    <name>sled-15-x86_64</name>
    <product_name>SUSE Linux Enterprise Desktop 15</product_name>
    <platform>Linux</platform>
    <version>15</version>
    <arch>x86_64</arch>
    <vendor>SUSE</vendor>
    <support_pack>3</support_pack>
    <pkgmgr>rpm</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<file source="/etc/os-release" substring="SUSE LINUX
Enterprise Desktop 15" />]]></detect>
  </ostarget>
</ostargets>
```

NOTE: To include the OS information of multiple platforms in the `ostargets.xml` file, refer to [“ostargets.xml Content Format” on page 3](#) for information on the content structure within the XML file.

Macintosh

Using the following `custom_ostargets.xml` file you can install the ZENworks agent on the following platforms:

- ♦ [“macOS Monterey” on page 31](#)
- ♦ [“macOS BigSur” on page 32](#)

macOS Monterey

For macOS Monterey the following content should be included in the `custom_ostargets.xml` file.

```
<ostargets>
  <ostarget>
    <name>macos-12-x86_64</name>
    <product_name>macOS Monterey</product_name>
    <platform>Macintosh</platform>
    <version>12</version>
    <arch>x86_64</arch>
    <vendor>Apple</vendor>
    <pkgmgr>app</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="macOS Monterey 12 x86_64" />]]></
detect>
  </ostarget>
  <ostarget>
    <name>macos-12-server-x86_64</name>
    <product_name>macOS Monterey Server</product_name>
    <platform>Macintosh</platform>
    <version>12</version>
    <arch>x86_64</arch>
    <vendor>Apple</vendor>
```

```

    <pkgmgr>app</pkgmgr>
    <primary_role>Server</primary_role>
    <detect><![CDATA[<OSVersion substring="macOS Monterey Server 12 x86_64" /
>]]></detect>
  </ostarget>
  <ostarget>
    <name>macos-12-arm64</name>
    <product_name>macOS Monterey</product_name>
    <platform>Macintosh</platform>
    <version>12</version>
    <arch>arm64</arch>
    <vendor>Apple</vendor>
    <pkgmgr>app</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="macOS Monterey 12 arm64" />]]></detect>
  </ostarget>
  <ostarget>
    <name>macos-12-server-arm64</name>
    <product_name>macOS Monterey Server</product_name>
    <platform>Macintosh</platform>
    <version>12</version>
    <arch>arm64</arch>
    <vendor>Apple</vendor>
    <pkgmgr>app</pkgmgr>
    <primary_role>Server</primary_role>
    <detect><![CDATA[<OSVersion substring="macOS Monterey Server 12 arm64" />]]></
detect>
  </ostarget>
</ostargets>

```

macOS BigSur

For macOS BigSur the following content should be included in the `custom_ostargets.xml` file.

NOTE: In the ZENworks 2020 Update 2 zone or later, the Big Sur managed devices added as custom targets in 2020 Update 1 due to some limitations will continue to have the information as given below until the managed devices are updated to 2020 update 2.

- ♦ macOS BigSur, which is macOS 11.x, is recognized as macOS 10.16 within ZENworks and as Apple macOS 11.x in the Inventory module.
 - ♦ The processor information of macOS BigSur devices with the Apple M1 processor is not populated in the inventory data collected by ZENworks. However, the processor information of macOS BigSur devices with the Intel processor is populated in the inventory data.
-


```

<ostargets>
  <ostarget>
    <name>macos-10.16-x86_64</name>
    <product_name>macOS Big Sur</product_name>
    <platform>Macintosh</platform>
    <version>10.16</version>
    <arch>x86_64</arch>
    <vendor>Apple</vendor>
    <pkgmgr>app</pkgmgr>
    <primary_role>Workstation</primary_role>
    <detect><![CDATA[<OSVersion substring="macOS Big Sur 10.16" />]]></detect>
  </ostarget>
  <ostarget>
    <name>macos-10.16-server-x86_64</name>
    <product_name>macOS Big Sur Server</product_name>
    <platform>Macintosh</platform>
    <version>10.16</version>
    <arch>x86_64</arch>
    <vendor>Apple</vendor>
    <pkgmgr>app</pkgmgr>
    <primary_role>Server</primary_role>
    <detect><![CDATA[<OSVersion substring="macOS Big Sur Server 10.16" />]]></
detect>
  </ostarget>
</ostargets>

```

Legal Notice

For information about legal notices, trademarks, disclaimers, warranties, export and other use restrictions, U.S. Government rights, patent policy, and FIPS compliance, see <https://www.microfocus.com/en-us/legal>.

© Copyright 2008 - 2022 Micro Focus or one of its affiliates.

The only warranties for products and services of Micro Focus and its affiliates and licensors ("Micro Focus") are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Micro Focus shall not be liable for technical or editorial errors or omissions contained herein. The information contained herein is subject to change without notice.