

Managing Store Apps with Intune

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MVP – Enterprise Mobility



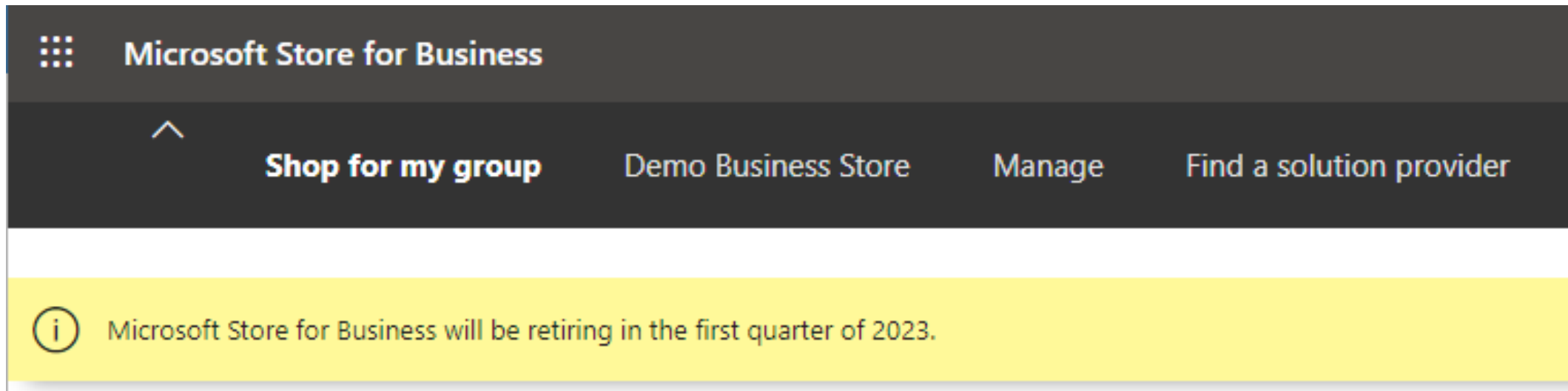
Microsoft Store



Agenda

- What is Package Manager/WinGet?
- What is new Store?
- Using Intune/ConfigMgr to manage Store apps

Microsoft Store for Business



How to remove MSfB from Intune/ConfigMgr?

What is Windows Package Manager?

Windows Package Manager is a comprehensive **package manager solution** that consists of a command line tool and set of services for installing applications on Windows 10 and Windows 11.

The **winget** command line tool enables users to discover, install, upgrade, remove and configure applications on Windows 10 and Windows 11 computers. This tool is the client interface to the Windows Package Manager service.

Someone is hosting a web site with app installation packages and providing an automated way to install/uninstall/upgrade an app.

App installer

[Home](#) / [Utilities & tools](#) / App Installer



App Installer

Microsoft Corporation

★★★★☆ 576 | [Utilities & tools](#)

What's new in this version

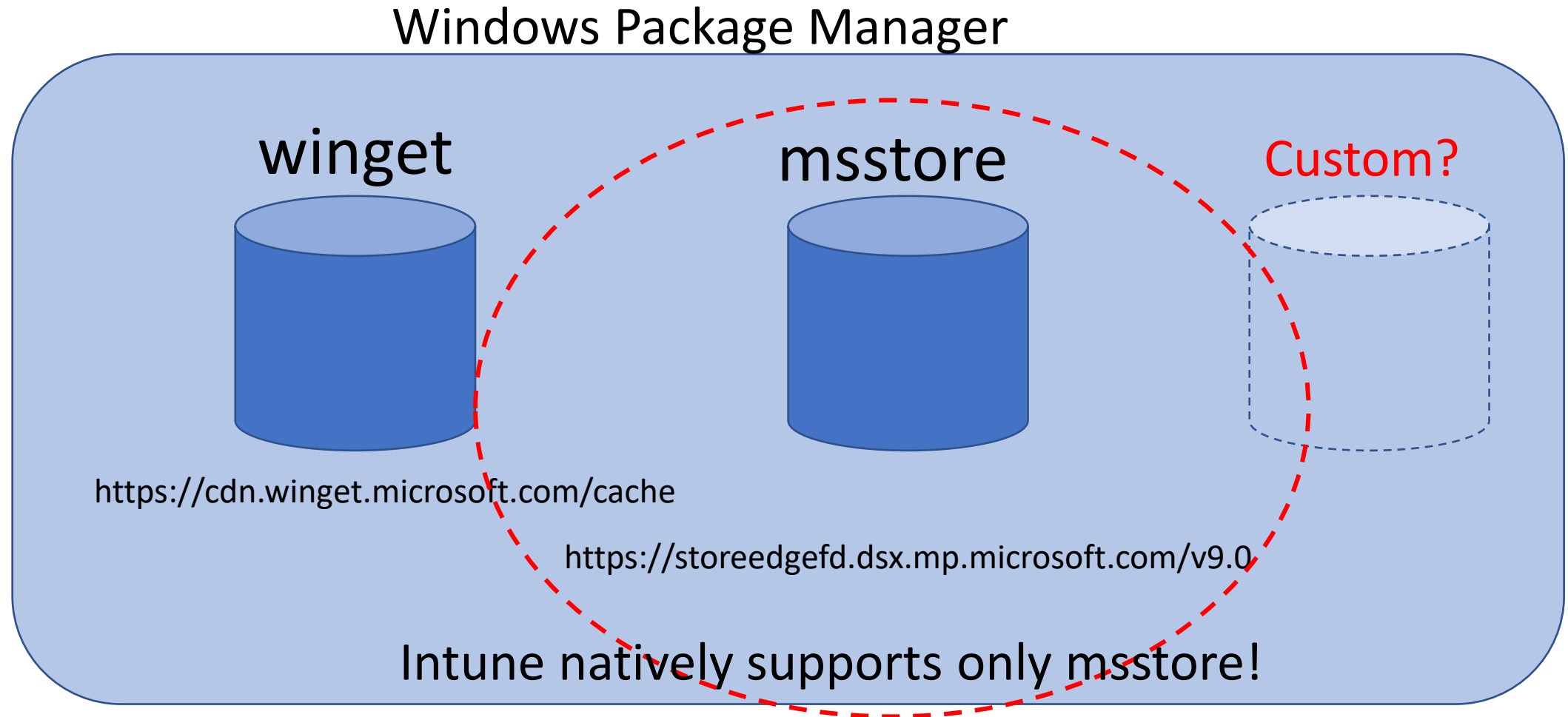
- Sideload Windows 10 apps
- See the app publisher, version, and capabilities
- See the app's display logo
- Install multiple Windows 10 apps at once
- Launch apps immediately after install
- Support for Windows Package Manager on Windows 10 1809 and later

App installer is the built-in client app for WinGet

Not on Windows servers

[App Installer - Microsoft Store Apps](#)

Windows Package Manager repositories



Winget repository

- Anyone with a Github account can add/update apps to Winget repository
 - Trust?
- Interesting article about [apps](#) from Winget repository

Winget commands

```
Windows Package Manager v1.3.2691
Copyright (c) Microsoft Corporation. All rights reserved.

The winget command line utility enables installing applications and other packages from the command line.

usage: winget [<command>] [<options>]

The following commands are available:
  install    Installs the given package
  show       Shows information about a package
  source     Manage sources of packages
  search     Find and show basic info of packages
  list       Display installed packages
  upgrade    Shows and performs available upgrades
  uninstall  Uninstalls the given package
  hash       Helper to hash installer files
  validate   Validates a manifest file
  settings   Open settings or set administrator settings
  features   Shows the status of experimental features
  export     Exports a list of the installed packages
  import     Installs all the packages in a file

For more details on a specific command, pass it the help argument. [-?]

The following options are available:
  -v,--version  Display the version of the tool
  --info        Display general info of the tool
```


Microsoft Store



	Old Store	New Store
Application technologies	UWP (.appx/.msix)	UWP (.appx/.msix), Win32 apps (.exe/.msi)
Authentication	MS Account/AAD account	No authentication/MS Account
Integration with mgmt. products	Intune/ConfigMgr (Microsoft Store for Business)	Intune
Application types	Online/offline, free/paid	Online

Source Winget/msstore

Search the Microsoft Store app (new)

Name	Id	Version	Match	Source
Adobe Express	9P94LH3Q1CP5	Unknown		msstore
Adobe Lightroom	9PNLG4ZG0XGJ	Unknown		msstore
Adobe Acrobat Reader DC				
Adobe Photoshop Express				
Adobe Creative Cloud				
Adobe Fresco				
Adobe Photoshop Express				
Adobe Creative Cloud				
Adobe Fresco				
Adobe Content Viewer				
Adobe Experience Manager Forms				
Adobe Photoshop Express Toshiba version ...				

Note

Specific Microsoft Store apps may not be displayed and available in Intune. Common reasons an app doesn't appear when searching within Intune include the following:

- The app is not available in your region
- The app is only available for ages 12 and above
- The app is a paid app, which is not supported
- The app is an Android app
- The app is a Microsoft Store for Business app that is not available publicly in the consumer store

Winget apps

```
PS C:\temp> winget show "adobe acrobat reader dc" --source msstore
Found Adobe Acrobat Reader DC [XPDP273C0XHQH2]
Version: 22.003.20282
Publisher: Adobe Inc.
Publisher Url: http://www.adobe.com/
Description: Adobe Acrobat Reader is the free, trusted global
Installer:
  Type: exe
  Locale: en
  Download Url: https://sparkcdneus2.azureedge.net/cachedpac1
cb2a43388223d1abb4480441a4c
  SHA256: e3ecffb408f9454a0c62ea2f51824890fd969cb2a43388223d1a004400441a4c

PS C:\temp> winget show "adobe express" --source msstore
Found Adobe Express [9P94LH3Q1CP5]
Version: Unknown
Publisher: Adobe Inc.
Publisher Url: https://www.adobe.com/express/
Publisher Support Url: https://helpx.adobe.com/support/express.html
Description: Adobe Express lets you quickly and easily create standout
skills needed and it's free to get started.
Installer:
  Type: msstore
  Store Product Id: 9P94LH3Q1CP5
```

Automatic installation with default settings. App version?

```
PS C:\temp> winget show "adobe acrobat reader dc" --source winget
Found Adobe Acrobat Reader DC [Adobe.Acrobat.Reader.32-bit]
Version: 22.003.20258
Publisher: Adobe Systems Incorporated
Publisher Url: https://www.adobe.com
```

```
PS C:\temp> winget show "vlc" --source msstore
Found VLC [XPDM1ZW6815MQM]
Version: 3.0.16
```

```
PS C:\temp> winget show "vlc" --source winget
Found VLC media player [VideoLAN.VLC]
Version: 3.0.18
```





Winget PowerShell support

- Currently WinGet has no native PowerShell support 😱
- Coming in WinGet 1.4

Windows Package Manager 1.4.10052

Pre-release

Compare ▾

 ryfu-msft released this 14 hours ago  v1.4.10052  461ba7b 

This release represents our second Windows Package Manager 1.4 release candidate build for Windows 10 (1809+), and Windows 11. Experimental features have been disabled in this release. This release also includes our **Microsoft.WinGet.Client PowerShell module**. Information about getting started and usage can be found [here](#).

Install Store apps with Intune

Select app type

Create app

App type

Select app type

Store app

Microsoft Store app (new)

Microsoft Store app (legacy)

[All services](#) > [Apps | Windows](#) > [Windows | Windows apps](#) >

Add App

Microsoft Store app (new)

1 App information

2 Scope tags

i Win32 apps in the Microsoft Store app (new) &

Select app * ⓘ

Search the Microsoft Store app (new)

vlq

Name	↑↓ Publisher	↑↓ Type
VLC	VideoLAN	Win32*
VLC UWP	VideoLAN	UWP

Search

Install Store apps with Intune: EXE/MSI

Add App

Microsoft Store app (new)

Select app * ⓘ

[Search the Microsoft Store app \(new\)](#)

Name * ⓘ

VLC

Description * ⓘ

VLC media player (previously the VideoLAN Client and commonly known as simply VLC) is a free and open-source, portable, cross-platform media player

Publisher * ⓘ

VideoLAN

Package Identifier ⓘ

XPDM1ZW6815MQM

Installer Type ⓘ

Win32*

Install behavior ⓘ

System User

Category ⓘ

0 selected

Show this as a featured app in the Company Portal ⓘ

Yes No

Information URL ⓘ

Enter a valid url

Privacy URL ⓘ

<https://www.videolan.org/privacy.html>

Install always as a system account

No version field

No logo automatically

EXE/MSI with System account

Install Store apps with Intune: UWP

Add App ...

Microsoft Store app (new)

Select app * ⓘ

Search the Microsoft Store app (new)

Name * ⓘ

VLC UWP

Description * ⓘ

VLC is the ultimate media player, ported to the Windows Universal Platform.

Publisher * ⓘ

VideoLAN

Package Identifier ⓘ

9NBLGGH4VVDH

Installer Type ⓘ

UWP

Install behavior ⓘ

System User

Category ⓘ

0 selected

Show this as a featured app in the Company Portal ⓘ

Yes No

Information URL ⓘ

Enter a valid url

Privacy URL ⓘ

<https://www.videolan.org/privacy.html>

Install always as a user account

No version field

No logo automatically

User-based UWP app

App icon

Add Microsoft Store (WinGet) app with icon into Intune automated (rozemuller.com)

```
$appName = "windows 365 preview"
$storeSearchUrl = "https://storeedgefd.dsx.mp.microsoft.com/v9.0/manifestSearch"
$body = @{
    Query = @{
        Keyword    = $appName
        MatchType = "Substring"
    }
} | ConvertTo-Json
$appSearch = Invoke-RestMethod -Uri $storeSearchUrl -Method POST -ContentType 'application/json' -body $body
$exactApp = $appSearch.Data | Where-Object { $_.PackageName -eq $appName }
$imageUrl = "https://apps.microsoft.com/store/api/ProductsDetails/GetProductDetailsById/{0}?hl=en-US&gl=US"
`-f $exactApp.PackageIdentifier
$image = Invoke-RestMethod -Uri $imageUrl -Method GET
$wc = New-Object System.Net.WebClient
$wc.DownloadFile($image.IconUrl, "$psscriptroot/$appname.jpg")
```


App updates

- Store apps are by default automatically updated

Turn off Automatic Download and Install of updates

Previous Setting Next Setting

☒ Not Configured Comment:

☐ Enabled

☐ Disabled

Supported on: At least Windows Server 2012 R2, Windows 8.1 or Windows RT 8.1

Do not enable!

Options:

Help:

Enables or disables the automatic download and installation of app updates.

If you enable this setting, the automatic download and installation of app updates is turned off.

If you disable this setting, the automatic download and installation of app updates is turned on.

If you don't configure this setting, the automatic download and installation of app updates is determined by a registry setting that the user can change using Settings in the Microsoft Store.

Recommended Group Policy settings

Store Group Policies	Desired setting
Store\Disable all apps from the Microsoft Store	Not configured or Disabled. Set to Disabled if wish to prevent end users from blocking the scenario.
Store\Turn off Automatic Download and Install of updates	Not configured or Disabled. Set to Disabled if you need to prevent end users from blocking the scenario.
Desktop App Installer\Enable App Installer Microsoft Store Source	Not configured or Enabled. Set to Enabled if wish to prevent end users from blocking the scenario.
Desktop App Installer\Enable App Installer	Not configured or Enabled. Set to Enabled if wish to prevent end users from blocking the scenario.
Store\Turn off the Store application	Not configured or Disabled. Set to Disabled if you need to prevent end users from blocking the scenario.

Default settings work fine!

[Add Microsoft Store apps to Microsoft Intune | Microsoft Learn](#)

Recommended Group Policy settings

Store\Only display the private store within the Microsoft Store to Enabled

Microsoft Store is blocked

Check with your IT or system administrator.

[Report this problem](#)

Store apps from Intune install normally!

But Winget command also works normally!

Is it 🇬🇧 or 🇺🇸 ?

[Add Microsoft Store apps to Microsoft Intune | Microsoft Learn](#)

Currently unsupported scenarios

- Install Store apps during ESP
 - Store apps will be installed after ESP
- Device provisioning of Store UWP apps
- Any app with an ARM64 installer

Debugging Store app installations

C:\ProgramData\Microsoft\IntuneManagementExtension\Logs\IntuneManagementExtension.log

[Win32App][WinGetApp][WinGetOperation] Completed Detection for app with id: 23b79afe-117d-475a-9069-741482debf63 and package id: **XPDM1ZW6815MQM**.

Result: NotDetected

[Win32App][ReportingManager] Desired state for app with id: 23b79afe-117d-475a-9069-741482debf63 has been updated.
Report delta: {"DesiredState":{"OldValue":null,"NewValue":"Present"}}

[Win32App][WinGetApp][WinGetAppExecutionExecutor] Starting execution of app with id: 23b79afe-117d-475a-9069-741482debf63 and context: SystemContext.

[Win32App][WinGetApp][WinGetOperation] Starting Install for app with id: 23b79afe-117d-475a-9069-741482debf63 and package id: XPDM1ZW6815MQM.











[Win32App][WinGetApp][WinGetAppExecutionExecutor] Completed execution for app with id: 23b79afe-117d-475a-9069-741482debf63.

WinGet operation result:

Operation result = Ok

Debugging WinGet command

C:\Users\panu\AppData\Local\Packages\Microsoft.DesktopAppInstaller_8wekyb3d8bbwe\LocalState\DiagOutputDir

Name	
	2023-01-10 14:14:12.939 [CLI] Completed installer selection.
	2023-01-10 14:14:12.952 [CLI] Generated temp download path: C:\Users\panu\AppData\Local\Temp\WinGet\7zip.7zip.22.01\b055fee85472921575071464a97a79540e489c1c3a14b9bdfbdbab60e17f36e4
	2023-01-10 14:14:12.953 [CORE] Downloading to path: C:\Users\panu\AppData\Local\Temp\WinGet\7zip.7zip.22.01\b055fee85472921575071464a97a79540e489c1c3a14b9bdfbdbab60e17f36e4
 WinGet-2023	2023-01-10 14:14:12.954 [CORE] DeliveryOptimization downloading from url: https://www.7-zip.org/a/7z2201-x64.exe
 WinGet-2023	2023-01-10 14:14:13.589 [CORE] Download completed.
	2023-01-10 14:14:13.679 [CORE] Started applying motw to C:\Users\panu\AppData\Local\Temp\WinGet\7zip.7zip.22.01\b055fee85472921575071464a97a79540e489c1c3a14b9bdfbdbab60e17f36e4 with zone: 3
 WinGet-2023	2023-01-10 14:14:13.682 [CORE] Finished applying motw
	2023-01-10 14:14:13.682 [CLI] Installer hash verified
 WinGet-2023	2023-01-10 14:14:13.683 [CORE] Started applying motw to C:\Users\panu\AppData\Local\Temp\WinGet\7zip.7zip.22.01\b055fee85472921575071464a97a79540e489c1c3a14b9bdfbdbab60e17f36e4 with zone: 2
 WinGet-2023	2023-01-10 14:14:13.684 [CORE] Finished applying motw
	2023-01-10 14:14:13.685 [CLI] Successfully renamed downloaded installer. Path: C:\Users\panu\AppData\Local\Temp\WinGet\7zip.7zip.22.01\7z2201-x64.exe
 WinGet-2023	2023-01-10 14:14:13.685 [REPO] Creating PredefinedInstalledSource with filter [ARP]
	2023-01-10 14:14:13.686 [REPO] Creating new SQLite Index [4294967295.4294967295] at ':memory:'
 WinGet-2023	2023-01-10 14:14:13.686 [SQL] Opening SQLite connection: ':memory:' [6, 0]
 WinGet-2023	2023-01-10 14:14:13.727 [REPO] Examining ARP entries for Machine X64
	2023-01-10 14:14:13.735 [REPO] Examining ARP entries for Machine X86
 WinGet-2023	2023-01-10 14:14:13.743 [REPO] Examining ARP entries for User X64
	2023-01-10 14:14:13.808 [CLI] Installer args: /S
 WinGet-2023	2023-01-10 14:14:13.809 [CLI] Starting: 'C:\Users\panu\AppData\Local\Temp\WinGet\7zip.7zip.22.01\7z2201-x64.exe' with arguments '/S'
	2023-01-10 14:14:25.867 [REPO] Creating PredefinedInstalledSource with filter [ARP]
	2023-01-10 14:14:25.867 [REPO] Creating new SQLite Index [4294967295.4294967295] at ':memory:'

C:\Windows\Temp\WinGet\defaultState (when running as a system)

New Store apps from ConfigMgr?

- Can you install new Store apps from ConfigMgr?
- Microsoft will not provide any new Store integration to ConfigMgr
 - Political decision?

How to install Store apps with ConfigMgr

User-based UWP app

Install Mozilla Properties

Install Behavior | General | Content | Programs | Detection Method | User Experience | Requirements | Return Codes | Dependencies

Specify the command to install this application.

Installation program: `cmd.exe /c winget install --id 9NZVDKPMR9RD --silent --accept-package-agreements` Browse...

Installation start in:

Specify the command to uninstall this application.

Uninstall program: `cmd.exe /c winget uninstall --id 9NZVDKPMR9RD --silent` Browse...

Uninstall start in:

`cmd.exe /c winget install --id 9NZVDKPMR9RD --silent --accept-package-agreements`

No content

Install Mozilla Properties

Install Behavior | General | Content | Programs | Detection Method | User Experience | Requirements | Return Codes | Dependencies

Specify user experience settings for the application.

Installation behavior: Install for user

Logon requirement: Only when a user is logged on

Installation program visibility: Normal

☒ Allow users to view and interact with the program installation

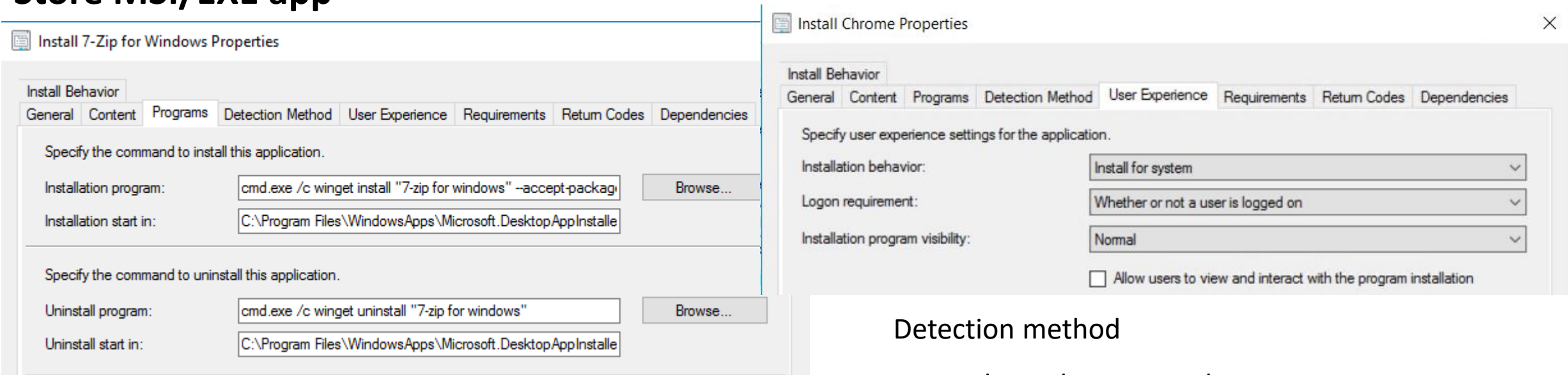
Detection method

```
1 $appName="Mozilla.Firefox"
2 $app=get-appxpackage -name $appName
3 if ($app.status -eq "Ok") {
4     write-host "App $appName is installed."
5     exit 0
6 } else
7 {
8     # Not installed
9     # STDOUT and STDERR needs to be empty = Not installed
10    exit 0
11 }
12
```


How to install Store apps with ConfigMgr

No content

Store MSI/EXE app



Detection method

Depends on the app used

C:\Program Files\WindowsApps\
Microsoft.DesktopAppInstaller_1.18.2691.0_x64__8wekyb3d8bbwe

Summary

- Microsoft Store for Business will be retired soon. Long live Windows Package Manager
- Store is one of WinGet repositories
- Intune integration with new Store apps is still in preview
 - Will be better in future
- Winget commands can be used in ConfigMgr/Intune