Windows 10 IoT Enterprise

Feature Comparisons

Online Resources

Compare Windows 10 Editions

https://www.microsoft.com/en-us/WindowsForBusiness/Compare

Setup a device for anyone to use (Kiosk mode)

https://technet.microsoft.com/en-us/library/mt219050(v=vs.85).aspx

Core Features

Familiar, and better than ever	Windows 10 Pro	Windows 10 Enterprise (CBB*)	Windows 10 Enterprise (LTSB)	Windows 10 IoT Enterprise (LTSB)
Customizable Start Menu	√	√	√	√
Windows Defender & Windows firewall	√	√	√	√
Fast start up with Hiberboot and InstantGo[1]	√	√	√	√
TPM support[2]	√	√	√	√
Battery Saver	√	√	√	√
Windows Update	√	√	√	√
Cortana[5]				
Talk or type naturally	√	√		
Personal and proactive suggestions	√	√		
Reminders	√	√		
Search web, device, and cloud	√	√		
"Hey Cortana" hands-free activation	√	√		
Windows Hello				
Native fingerprint recognition	√	√	√	√
Native facial and iris recognition	√	√	√	√
Enterprise level security	√	√	√	√
Multi-doing				
Virtual desktops	√	√	√	√
Snap assist (up to 4 apps on one screen)	√	√	√	√
Snap apps across screens on different monitors	√	√	√	√
Continuum[4]				
Switch from PC to tablet mode	√	√	√	√
Microsoft Edge				
Reading view	√	√		
Built-in ink support	√	√		
Cortana integration[5]	√	√		
Universal Windows Platform				
Universal Windows apps	√	√	√	√
Classic Desktop applications	√	√	√	√
Microsoft Universal Windows apps included	√	√		
Microsoft Store Client	√	√		

* *Requires Software Assurance*

3DBuilder
AppConnector
Bing Finance
Bing News
Bing Sports
BingWeather
Getstarted
MicrosoftSolitaireCollection
Office Hub
Office.OneNote
People
Phone Companion App
SkypeApp
WindowsAlarms
WindowsCalculator
WindowsCamera
WindowsCommunicationsApps
WindowsMaps
WindowsPhotos
WindowsSound Recorder
WindowsStore
XboxApp
ZuneMusic
ZuneVideo[5]

Number notations on charts

1 - Requires InstantGo or device that passes the device encryption HCK test

2 - Requires TPM 1.2 or greater

3 - Windows Hello requires specialized hardware, including fingerprint reader, illuminated IR sensor or other biometric sensors

4 - Requires touch screen capabilities; App experiences may vary

5 - Cortana is available only in certain markets; Experience may vary by region and device; Requires Microsoft Account to use

6 - Requires InstantGo or device that passes the "Device Encryption Requirements Test"

7 - Separate license for Azure Active Directory required

8 – Coming Later. Subject to Change.

9 - Requires UEFI 2.3.1 or greater; Virtualization Extensions such as Intel VT-x, AMD-V, and SLAT must be enabled; x64 version of Windows; IOMMU, such as Intel VT-d, AMD-Vi; TPM 2.0; BIOS Lockdown

Business Features

Existing fundamentals	Windows 10 Pro	Windows 10 Enterprise (CBB & LTSB)	Windows 10 IoT Enterprise LTSB
Device Encryption[6]	√	√	√
Domain Join	√	√	√
Group Policy Management	√	√	√
BitLocker2	√	√	√
Enterprise Mode Internet Explorer (EMIE)	√	√	√
Assigned Access 8.1	√	√	√
Remote Desktop	√	√	√
Direct Access		√	√
Windows To Go Creator	√	√	√
AppLocker		√	√
BranchCache		√	√
Start Screen Control with Group Policy		√	√
Management and deployment			
Side-loading of line of business apps	√	√	√
Mobile device management	√	√	√
Ability to join Azure Active Directory, with single sign-on to cloud-hosted apps[7]	√	√	√
Business Store for Windows 10[8]		√	
Granular UX Control		√	√
Easy Upgrade from Pro to Enterprise Edition	√	√	√
Easy Upgrade from Home to Education Edition			
Security			
Microsoft Passport	√	√	√
Enterprise Data Protection[8]	√	√	√
Credential Guard[9]		√	√
Device Guard[9]		√	√
Delivering Windows as a service			
Windows Update	√	√	√
Windows Update for Business	√	√	
Current Branch for Business	√	√	
Long Term Servicing Branch		√	√

← Not allowed with current licensing IoT terms

← Name for grouping of features for creating a targeted device experience

← Requires Software Assurance

Granular UX Control

Granular UX Control	Windows 10 Pro	Windows 10 Enterprise	Windows 10 IoT Enterprise
Unified Write Filter		√	√
Embedded Logon		√	√
Assigned Access		√	√
Shell Launcher		√	√
Embedded Boot Expereince		√	√
Unbranded Screens		√	√
AppLocker		√	√
MDM & Group Policies		√	√

Lockdown Feature Comparisons

Capability	Feature Mapping		
	Windows Embedded 8.1 Industry Pro		**Windows 10 IoT Enterprise**
Protect devices physical storage media	Unified Write Filter	----->	Unified Write Filter
Boot fast to a know state on the device	HORM	X	
Suppress Windows UI elements displayed during Windows logon and shutdown	Embedded Logon	----->	Embedded Logon
Block edge gestures	Gesture Filter	----->	Assigned Access
Block hotkeys and other key combinations	Keyboard Filter	----->	Assigned Access / Shell Launcher
Launch a desktop app on login	Shell Launcher	----->	Shell Launcher
Launch a Universal Windows app on login	Application Launcher	----->	Assigned Access
Suppress system dialogs & control processes that can run	Dialog Filter	----->	AppLocker & MDM policies
Suppress toast notifications	Toast Filter	----->	MDM & Group policies
Configure lockdown features	Embedded Lockdown Manager	----->	ICD / Provisioning package(s)
Restrict USB devices / peripherals on system	USB Filter	----->	MDM & Group policies
Launch a Universal Windows app on login plus lock access to system	Assigned Access	----->	Assigned Access
Custom brand a device by removing and/or replace Windows UI boot elements	Embedded Boot Experience / Unbranded Screens	----->	Embedded Boot Experience / Unbranded Screens
Suppress Windows UI elements displayed during logon and logoff	Embedded Logon	----->	Embedded Logon

Unified Write Filter (UWF)
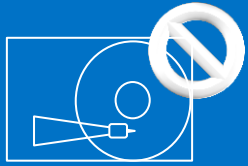
Sector Based Protection	Create read only devices
Registry Exclusion	Protect system against write operations
File & Folder Exclusion	Improve system up-time
	Reduce IT support & improve compliance

Restrict Access to USB Devices
Group Policy or ICD
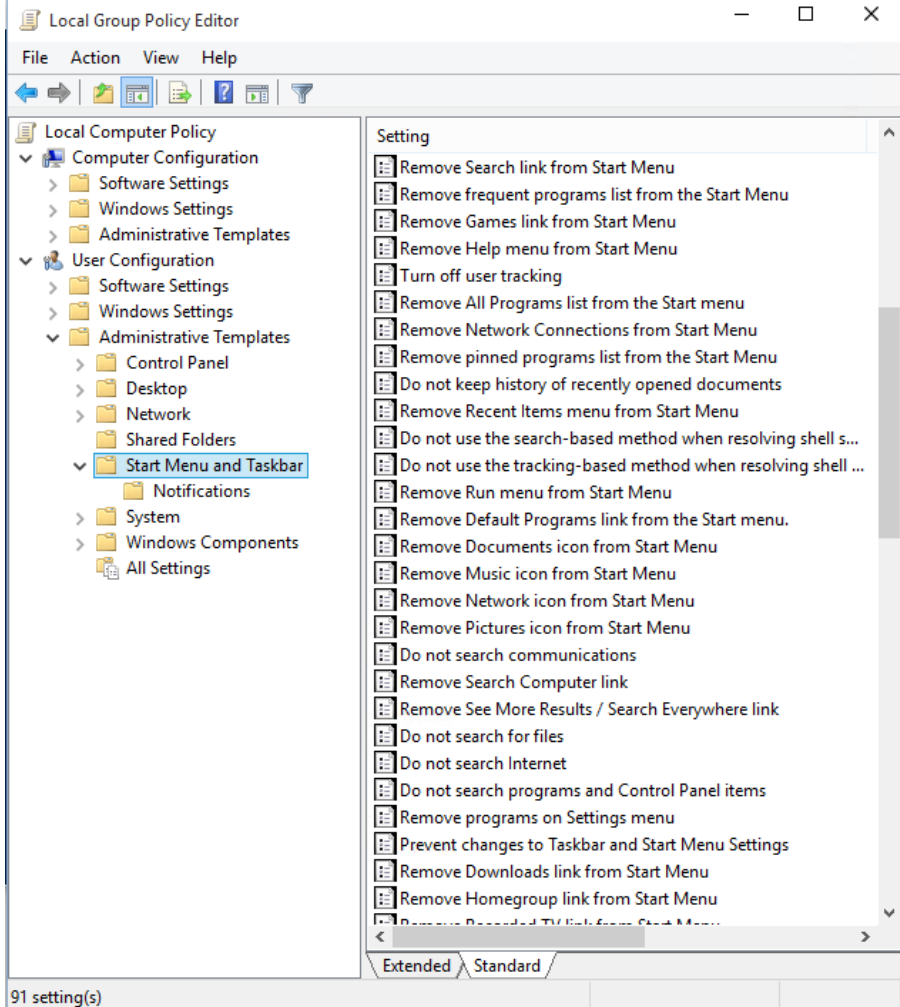
Prevent installation of all devices

Allow users to install only authorized devices
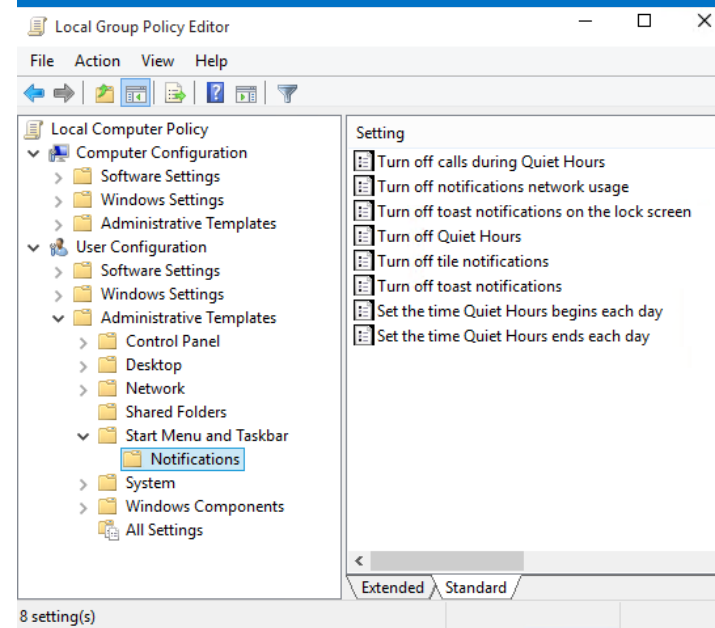
Prevent installation of prohibited devices

Control read and write permissions on removable media

Granular UX Control | Group Policy or ICD

Fully customize the Start Menu, Start Screen taskbar to a desired layout

Suppress toast notifications

AppLocker
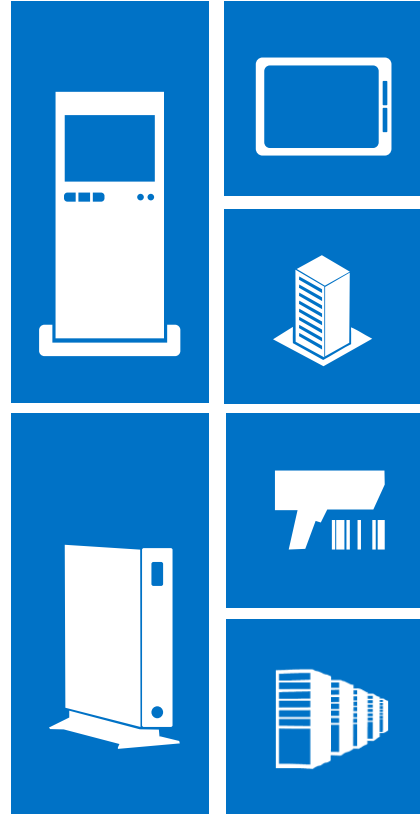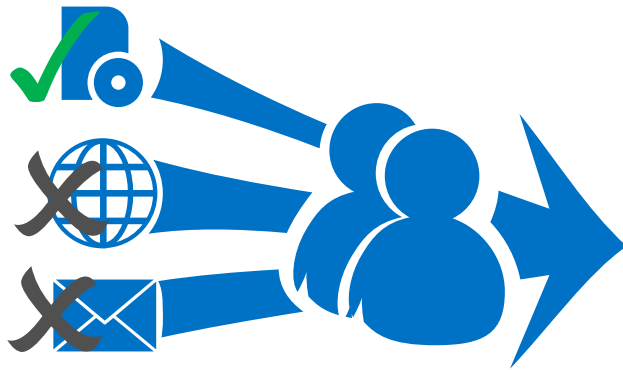
Eliminate unwanted/unknown applications in your network

Enforce application standardization within your organization

Easily create and manage flexible rules using Group Policy

Shell Launcher

Users →
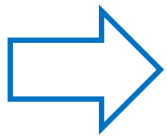
Launch Classic Windows apps as a custom shell

Dedicated device & app experience

Admins →
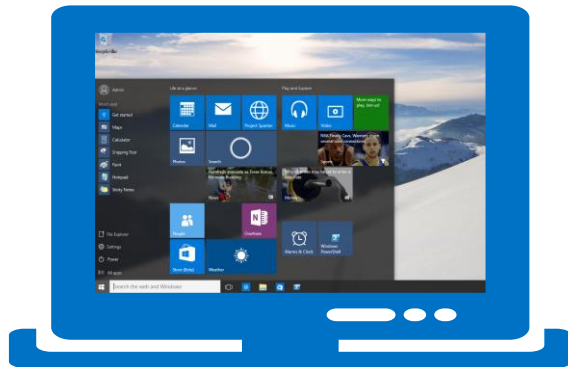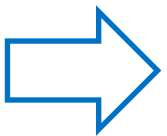
Different shells for different user groups

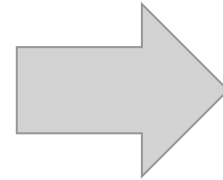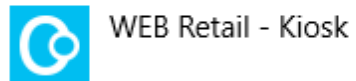Admins can still have access to the Universal Windows Platform
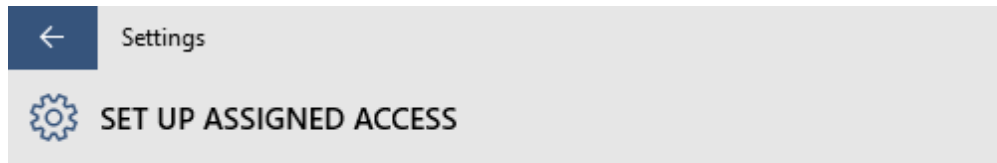
Assigned Access

Easily create a single Universal Windows application experience