# April, 2020, b1150

Includes various bug fixes and many new optimizations that have a huge beneficial effect.

Support for Windows 10 version 2004 has been added.

## Optimizations

Lots of Windows 10 and Windows Server optimizations have been added to this version. These include settings for Windows features and also for applications:

* Office 2013/2016/2019
  + Disable start screens
  + Disable animations
  + Disable hardware acceleration
* Internet Explorer 11 and Edge browser
  + Blank home page
  + Prevent first time wizard
  + Disable hardware acceleration
* Adobe Reader 11 and DC
  + Disable hardware acceleration
  + Multiple additional optimizations

More optimizations have been added for Windows services and scheduled tasks to achieve a faster OS initialization and improve performance.

## UI Button Renames and Reorder

Several buttons have been renamed to more closely reflect the task they perform.

* ***Analyze*** is now called ***Optimize***.
* The old page that displayed the results of an optimization task used to be called ***Optimize***. That has been renamed to ***Results***.

Inside the Optimize page the buttons at the bottom left have been reorganized. These are now in order that you would execute them in. Analyze > Common Options > Optimize

Removed the button for Compatibility as this was a legacy item.

The top-level buttons and tabs have been reordered to better reflect the main tasks and the order you carry them out in. ***Analyze > Generalize > Finalize.***

## Common Options

New option in Visual Effect to allow the selection of disabling hardware acceleration for IE, office and Adobe Reader. The default is that this is selected but this allows this to be easily unselected if using hardware GPU.

Added Photos to the list of Windows Store apps that can be selected to be retained.

Setting the background to a solid color is now selected by default.

## Generalize

More comprehensive Sysprep answer file that helps with some optimization items that were getting undone by the Sysprep process.

## Finalize

New options to carry out some tasks that get undone during Generalize.

* Disable Superfetch service. This reduces high usage of CPU and RAM.
* Clean temporary files from the default user profile.

Automate the use of SDelete to zero empty disk space.

* Overwrites empty disk space with zeros so that the VMDK size can be reduced when it is cloned.
* This uses SDelete which needs to be downloaded from Microsoft Sysinternals and copied to a location in the path (Windows\System32 or current user directory).

Create Local Group Policies

* Creates local group policies for computer and user settings that can then be viewed with tools like RSOP and GPEdit.
* This uses LGPO.exe which can be downloaded as part of the Microsoft Security Compliance Toolkit. LGPO.exe should be copied to a location in the path (Windows\System32 or current user directory).

## Command Line

Command line support added for the Generalize step.

Command line support added for the Finalize step. This also simplifies and consolidates the previous system clean tasks (NGEN, DISM, Compact, Disk Cleanup) under the new -Finalize option. These can now be run without specifying a template.

Fixed naming of Paint3D application when wanting to retain this while removing other Windows Store Applications. This had been previously been incorrectly named as MSpaint.

## Templates

Windows 10 version 2004 was added to the built-in template **Windows 10 1809 – XXXX-Server 2019.**

Legacy templates for Horizon Cloud and App Volumes packaging have been removed. The two standard Windows 10 templates should be used instead.

LoginVSI templates are no longer built in. They are still available to download from the public templates interface.

## Guides

Updated OSOT user guide: [VMware Operating System Optimization Tool Guide.](https://techzone.vmware.com/resource/vmware-operating-system-optimization-tool-guide)

Updated [Creating an Optimized Windows Image for a VMware Horizon Virtual Desktop guide](https://techzone.vmware.com/creating-optimized-windows-image-vmware-horizon-virtual-desktop) coming soon.