
macOS

Managed Operating Environment

For OS version: Sierra 10.12.x



Calum Hunter - 18 January 2017



Education

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Change History

Changes to 10.12 MOE since 10.11.x MOE

Below are the major changes to the 10.12.x MOE from the previous 10.11.x MOE.

- **Some Safari plugins disabled by default.**

As of 10.12, Apple have automatically disabled the following plugins in Safari

- Silverlight
- Flash
- Java

While these plugins continue to function, a user must enable these via the Safari preferences, or choose to enable them when accessing a website that uses these plugins.

Note: Some websites may not display the content requested at all until these plugins are enabled.

Note: Due to the security risks with these plugins, it is suggested that any websites being accessed that require these plugins be avoided and alternatives that do not rely on these risky plugins be found.

- **No more local administrator accounts on 10.12+**

As of 10.12, the DoE image will no longer include local admin accounts.

Instead users who require administrator rights on the Mac will have to log into the Mac using their AD account. If their AD account has administrator privileges then those will be respected on the Mac and the user will be able to perform admin tasks. This is in line with the process on Windows.

There are four AD groups a user must be a member of:

- DETNSWDevice_Schools_Admin
- DETNSWDevice_SCH_Admin
- DETNSWDevice_Enterprise_Admin
- DETNSWDevice_<SITE CODE>_Admin

Where <SITE CODE> above will be replaced with the site code of the site the machine is built at.

- **Supported hardware changes.**

Apple have updated the supported hardware list for 10.12.

See the section below titled “**Supported Hardware List**” for details on what hardware is required to run 10.12.

- **Apple Remote Desktop**

As there are no more local administrator accounts on the build, connecting to this MOE using ARD can now be achieved by using your domain account.

There are four domain groups that a user must be a member of either directly or via other nested group membership. Those groups are as follows:

DETNSW\Device_Schools_Admin
DETNSW\Device_SCH_Admin
DETNSW\Device_Enterprise_Admin
DETNSW\Device_<SITE CODE>_Admin

Where <SITE CODE> above will be replaced with the site code of the site the machine is built at.

- **Included Software**

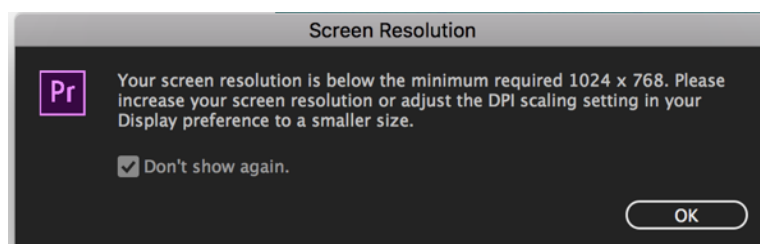
The following software titles have been removed as they are no longer compatible with macOS 10.12 Sierra:

- Adobe Flash Builder 4.7
- Adobe Fireworks CS6
- Adobe Flash

Known issues

- **Adobe Premiere and Adobe Prelude CC 2017**

On machines with a Retina display, Adobe Premiere CC 2017 presents a false error indicating that the screen resolution is below the minimum of 1024x768. This is in fact not true, and does not prevent the application from working correctly. You can safely ignore this error.



Terminology

When talking about computer builds, we often refer to an “image”. In computer terms the word “image” can have many meanings. To help prevent confusion, we instead refer to the set of computer applications and settings deployed to a machine as a SOE (Standard Operating Environment) or a MOE (Managed Operating Environment).

The differences between a SOE and MOE are pretty simple in that a SOE is a “static” build. In this case the SOE is restored or deployed to a machine. The applications and settings are then set and only updated or changed by an administrator user on that machine - there is no ongoing management or patching.

With a MOE, the environment is managed. This means that applications and settings are continually being managed and updated. This is important for environments where things such as anti virus / anti malware updates and patches need to be applied. This also allows for the applications to be updated when required centrally from an administration console without the need for any user intervention on the machines.

This ensures that a machine deployed with a MOE, is always in the desired state and up to date, no matter how long ago the machine was originally “imaged” or built.

The Mac OS X 10.11 and higher “image” that is in use in the DoE is of the MOE type. Previously with the older “images” developed by the DoE (10.10 and earlier), the SOE type was used.

It is important to note the difference.

Supported Hardware List

The MacOS 10.12 MOE requires 4GB of RAM and 100GB of HDD space minimum in order to operate correctly.

The following hardware is supported, providing that it meets the minimum RAM requirement listed above.

- iMac (Late 2009 or newer)
- MacBook (Late 2009 or newer)
- MacBook Pro (Mid 2010 or newer)
- MacBook Air (Late 2010 or newer)
- Mac mini (Mid 2010 or newer)
- Mac Pro (Mid 2010 or newer)

For more information please go to:

<http://www.apple.com/macos/how-to-upgrade/#hardware-requirements>

Or

<https://support.apple.com/en-au/HT201475>

Preconfigured local accounts

User Name	Short Name	Password
Student	student	student
Teacher	teacher	teacher

Note:

During deployment the MOE is bound to the DoE Active Directory Domain. This allows for a user to login to a machine using their AD domain accounts.

The UPN format of: `firstname.lastname@detnsw` should be used

Accounts that have administrator privileges in AD will have administrator privileges on the Mac.

There is no local admin account on the 10.12 Image. Users who require administrator privileges must use their AD account which has administrator access - just like on Windows.

Specifically an AD user must be a member or be in a group that is a member of one of the following 4 groups:

- DETNSW\Device_Schools_Admin
- DETNSW\Device_SCH_Admin
- DETNSW\Device_Enterprise_Admin
- DETNSW\Device_<SITE_CODE>_Admin

Installed software

Adobe Creative Suite CC 2017	Microsoft Office 2016
Adobe Acrobat DC	Microsoft Excel
Adobe After Effects	Microsoft Lync
Adobe Animate	Microsoft OneNote
Adobe Audition	Microsoft Outlook
Adobe Bridge	Microsoft PowerPoint
Adobe Dreamweaver	Microsoft Word
Adobe Illustrator	Plugins
Adobe InCopy	Adobe AIR
Adobe InDesign	Adobe Flash
Adobe Lightroom	Adobe Shockwave
Adobe Media Encoder	Java
Adobe Muse	MS Silverlight
Adobe Photoshop	Optional Installs
Adobe Prelude	Adobe Captivate 9
Adobe Premiere Pro	Audacity
Adobe Scout	Citrix Receiver
Adobe SpeedGrade	Google Earth
Browsers	Text Wrangler
Chrome	Virtual Box
Firefox ESR	Other
Safari	Cyberduck
DoE Applications	VLC
Network Connector	
iLife / iWork (If eligible)	
iMovie	
Keynote	
Numbers	
Pages	