

# Windows Memory Limits

## Windows Memory Limits

**Windows Memory Limits:** Based on <http://msdn.microsoft.com/en-us/library/aa366778%28VS.85%29.aspx>

### Physical Memory Limits: Windows 10

The following table specifies the limits on physical memory for Windows 10.

| Version               | Limit on X86 | Limit on X64 |
|-----------------------|--------------|--------------|
| Windows 10 Enterprise | 4 GB         | 2TB          |
| Windows 10 Pro        | 4 GB         | 2TB          |

### Physical Memory Limits: Windows Server 2016

The following table specifies the limits on physical memory for Windows Server 2016.

| Version                        | Limit on X64 |
|--------------------------------|--------------|
| Windows Server 2016 Datacenter | 24 TB        |
| Windows Server 2016 Standard   | 24 TB        |

### Physical Memory Limits: Windows 8

|                        | 32 bit | 64 bit |
|------------------------|--------|--------|
| Windows 8              | 4GB    | 128GB  |
| Windows 8 Professional | 4GB    | 512GB  |
| Windows 8 Enterprise   | 4GB    | 512GB  |

### Physical Memory Limits: Windows Server 2012

The following table specifies the limits on physical memory for Windows Server 2012. Windows Server 2012 is available only in X64 editions.

| Version                        | Limit on X64 |
|--------------------------------|--------------|
| Windows Server 2012 Datacenter | 4 TB         |
| Windows Server 2012 Standard   | 4 TB         |

Windows Server 2012 Essentials is not supported.

Windows Server 2012 Foundation is not supported.

Windows Storage Server 2012 Workgroup is not supported

Windows Storage Server 2012 Standard is not supported

| System Requirements |                     |
|---------------------|---------------------|
| Applies to          | System Requirements |
| Version             | all versions        |
| Last revised        | 10-Oct-2016         |

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## Physical Memory Limits: Windows 7

The following table specifies the limits on physical memory for Windows 7.

|                        | 32 bit | 64 bit |
|------------------------|--------|--------|
| Windows 7 Professional | 4GB    | 192GB  |
| Windows 7 Enterprise   | 4GB    | 192GB  |
| Windows 7 Ultimate     | 4GB    | 192GB  |

## Physical Memory Limits: Windows Server 2008 R2

The following table specifies the limits on physical memory for Windows Server 2008 R2. Windows Server 2008 R2 is available only in 64-bit editions.

| Version                           | Limit on X64 | Limit on IA64 |
|-----------------------------------|--------------|---------------|
| Windows Server 2008 R2 Datacenter | 2 TB         |               |
| Windows Server 2008 R2 Enterprise | 2 TB         |               |
| Windows Server 2008 R2 Standard   | 32 GB        |               |

Windows Small Business Server 2008 is not supported

Windows Server 2008 R2 Foundation is not supported.

Windows Web Server 2008 R2 is not supported

Windows Server 2008 R2 HPC Edition is not supported

## Physical Memory Limits: Windows Server 2008

The following table specifies the limits on physical memory for Windows Server 2008. Limits greater than 4 GB for 32-bit Windows assume that [PAE](#) is enabled.

| Version                        | Limit on X86 | Limit on X64 | Limit on IA64 |
|--------------------------------|--------------|--------------|---------------|
| Windows Server 2008 Datacenter | 64 GB        | 1 TB         |               |
| Windows Server 2008 Enterprise | 64 GB        | 1 TB         |               |
| Windows Server 2008 Standard   | 4 GB         | 32 GB        |               |

Windows Small Business Server 2008 is not supported

Windows Web Server 2008 is not supported

Windows Server 2008 HPC Edition is not supported

### **Windows XP**

|                      | 32 bit |     |     |     | 64 bit |       |       |       |
|----------------------|--------|-----|-----|-----|--------|-------|-------|-------|
|                      |        | SP1 | SP2 | SP3 |        | SP1   | SP2   | SP3   |
| Home Edition         | 4GB    | 4GB | 4GB | 4GB |        |       |       |       |
| Professional Edition | 4GB    | 4GB | 4GB | 4GB | 128GB  | 128GB | 128GB | 128GB |

## **Windows Vista**

|                            | 32 bit |     |     | 64 bit |       |       |
|----------------------------|--------|-----|-----|--------|-------|-------|
|                            |        | SP1 | SP2 |        | SP1   | SP2   |
| Windows Vista Starter      | 1GB    | 1GB | 1GB |        |       |       |
| Windows Vista Home Basic   | 4GB    | 4GB | 4GB | 8GB    | 8GB   | 8GB   |
| Windows Vista Home Premium | 4GB    | 4GB | 4GB | 16GB   | 16GB  | 16GB  |
| Windows Vista Business     | 4GB    | 4GB | 4GB | 128GB  | 128GB | 128GB |
| Windows Vista Enterprise   | 4GB    | 4GB | 4GB | 128GB  | 128GB | 128GB |
| Windows Vista Ultimate     | 4GB    | 4GB | 4GB | 128GB  | 128GB | 128GB |

## **Windows 2000**

|                                | 32 bit |      |      |      |      |
|--------------------------------|--------|------|------|------|------|
|                                |        | SP1  | SP2  | SP3  | SP4  |
| Windows 2000 Professional      | 4GB    | 4GB  | 4GB  | 4GB  | 4GB  |
| Windows 2000 Server            | 4GB    | 4GB  | 4GB  | 4GB  | 4GB  |
| Windows 2000 Advanced Server   | 8GB    | 8GB  | 8GB  | 8GB  | 8GB  |
| Windows 2000 Datacenter Server | 32GB   | 32GB | 32GB | 32GB | 32GB |

## **Windows Server 2003**

|                                   | 32 bit              |                     |                     | 64 bit |      |      |
|-----------------------------------|---------------------|---------------------|---------------------|--------|------|------|
|                                   |                     | SP1                 | SP2                 |        | SP1  | SP2  |
| Windows Server 2003 Standard      | 4GB                 | 4GB                 | 4GB                 | 16GB   | 32GB | 32GB |
| Windows Server 2003 Enterprise    | 32GB,16GB with 4GT  | 64GB,16GB with 4GT  | 64GB                | 64GB   | 1TB  | 2TB  |
| Windows Server 2003 Datacenter    | 128GB,16GB with 4GT | 128GB,16GB with 4GT | 128GB,16GB with 4GT | 512 GB | 1TB  | 2TB  |
| Windows Server 2003 R2 Standard   |                     | 4GB                 |                     |        | 32GB |      |
| Windows Server 2003 R2 Enterprise |                     | 64GB,16GB with 4GT  |                     |        | 1TB  |      |
| Windows Server 2003 R2 Datacenter |                     | 128GB,16GB with 4GT |                     |        | 1TB  |      |

Windows Small Business Server 2003 is not supported  
Windows Server 2003 Web is not supported

## **Notes**

1. Installing and using Esko software on a Terminal Services or Remote Desktop Services server (Microsoft, Citrix,...) is not supported, except for non-subscription versions of Cape Pack. You cannot run Esko software with local licenses via Remote Desktop.
2. Although we don't expect issues with Microsoft OS patches, Esko only guarantees support on the official MS Service Pack (SP) level, not on individual OS patches. PC's for Esko applications (editors, rips or servers) must not be configured as WebServers (IIS), Network Domain Controllers (Active Directory), DNS Server, DHCP Server, WINS Server, SQL Server, or

MailServer. The Automation Engine Server is allowed to be a Member Server in a Windows Active Directory domain. However, Esko can not test all possible configurations. Contact your regional Customer Service Center in case of specific questions.

3. A single processor with hyperthreading enabled is considered as 2 processors for memory calculations. A dual core processor is considered as 2 processors for memory calculations.
4. Esko software will only work with properly licensed versions of operating systems and other software. Esko is not responsible for any loss of functionality due to use with unlicensed software. Esko will not provide assistance in installing software on equipment lacking properly licensed software.

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