

## EnumDeviceDrivers function (psapi.h) - Win32 apps

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Retrieves the load address for each device driver in the system.

```
BOOL EnumDeviceDrivers(  
    [out] LPVOID *lpImageBase,  
    [in]  DWORD  cb,  
    [out] LPDWORD lpcbNeeded  
);
```

[out] lpImageBase

An array that receives the list of load addresses for the device drivers.

[in] cb

The size of the *lpImageBase* array, in bytes. If the array is not large enough to store the load addresses, the *lpcbNeeded* parameter receives the required size of the array.

[out] lpcbNeeded

The number of bytes returned in the *lpImageBase* array.

If the function succeeds, the return value is nonzero.

If the function fails, the return value is zero. To get extended error information, call [GetLastError](#).

To determine how many device drivers were enumerated by the call to **EnumDeviceDrivers**, divide the resulting value in the *lpcbNeeded* parameter by `sizeof(LPVOID)`.

Starting with Windows 7 and Windows Server 2008 R2, Psapi.h establishes version numbers for the PSAPI functions. The PSAPI version number affects the name used to call the function and the library that a program must load.

If PSAPI\_VERSION is 2 or greater, this function is defined as **K32EnumDeviceDrivers** in Psapi.h and exported in Kernel32.lib and Kernel32.dll. If PSAPI\_VERSION is 1, this function is defined as **EnumDeviceDrivers** in Psapi.h and exported in Psapi.lib and Psapi.dll as a wrapper that calls **K32EnumDeviceDrivers**.

Programs that must run on earlier versions of Windows as well as Windows 7 and later versions should always call this function as **EnumDeviceDrivers**. To ensure correct resolution of symbols, add Psapi.lib to the TARGETLIBS macro and compile the program with `-DPSAPI_VERSION=1`. To use run-time dynamic linking, load Psapi.dll.

Starting in Windows 11 Version 24H2, **EnumDeviceDrivers** will require **SeDebugPrivilege** to return valid *ImageBase* values. The function will still succeed if the caller does not have this privilege enabled, but the returned *lpImageBase* array will contain addresses that are all NULL.

For an example, see [Enumerating all Device Drivers in the System](#).

Requirement	Value
Minimum supported client	Windows XP [desktop apps only]
Minimum supported server	Windows Server 2003 [desktop apps only]
Target Platform	Windows
Header	psapi.h
Library	Kernel32.lib on Windows 7 and Windows Server 2008 R2; Psapi.lib (if PSAPI_VERSION=1) on Windows 7 and Windows Server 2008 R2; Psapi.lib on Windows Server 2008, Windows Vista, Windows Server 2003 and Windows XP
DLL	Kernel32.dll on Windows 7 and Windows Server 2008 R2; Psapi.dll (if PSAPI_VERSION=1) on Windows 7 and Windows Server 2008 R2; Psapi.dll on Windows Server 2008, Windows Vista, Windows Server 2003 and Windows XP

[Device Driver Information](#)

[GetDeviceDriverBaseName](#)

[GetDeviceDriverFileName](#)

[PSAPI Functions](#)

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Source: <https://learn.microsoft.com/windows/win32/api/psapi/nf-psapi-enumdevicedrivers>