WM_DEVICECHANGE message

Notifies an application of a change to the hardware configuration of a device or the computer.

A window receives this message through its **WindowProc** function.

C++

```cpp
LRESULT CALLBACK WindowProc(HWND   hwnd,      // handle to window
                            UINT   uMsg,      // WM_DEVICECHANGE
                            WPARAM wParam,    // device-change event
                            LPARAM lParam ); // event-specific data
```

Parameters

hwnd
> A handle to the window.

uMsg
> The **WM_DEVICECHANGE** identifier.

wParam
> The event that has occurred. This parameter can be one of the following values from the Dbt.h header file.

Value	Meaning
DBT_CONFIGCHANGECANCELED 0x0019	A request to change the current configuration (dock or undock) has been canceled.
DBT_CONFIGCHANGED 0x0018	The current configuration has changed, due to a dock or undock.
DBT_CUSTOMEVENT 0x8006	A custom event has occurred.
DBT_DEVICEARRIVAL 0x8000	A device or piece of media has been inserted and is now available.
DBT_DEVICEQUERYREMOVE 0x8001	Permission is requested to remove a device or piece of media. Any application can deny this request and cancel the removal.
DBT_DEVICEQUERYREMOVEFAILED 0x8002	A request to remove a device or piece of media has been canceled.
DBT_DEVICEREMOVECOMPLETE 0x8004	A device or piece of media has been removed.
DBT_DEVICEREMOVEPENDING 0x8003	A device or piece of media is about to be removed. Cannot be denied.
DBT_DEVICETYPESPECIFIC 0x8005	A device-specific event has occurred.
DBT_DEVNODES_CHANGED 0x0007	A device has been added to or removed from the system.
DBT_QUERYCHANGECONFIG 0x0017	Permission is requested to change the current configuration (dock or undock).
DBT_USERDEFINED 0xFFFF	The meaning of this message is user-defined.

lParam
> A pointer to a structure that contains event-specific data. Its format depends on the value of the *wParam* parameter. For more information, refer to the documentation for each event.

Return value

Return **TRUE** to grant the request.

Return **BROADCAST_QUERY_DENY** to deny the request.

Remarks

For devices that offer software-controllable features, such as ejection and locking, the system typically sends a DBT_DEVICEREMOVEPENDING message to let applications and device drivers end their use of the device gracefully. If the system forcibly removes a device, it may not send a DBT_DEVICEQUERYREMOVE message before doing so.

Requirements

Minimum supported client	Windows XP
Minimum supported server	Windows Server 2003
Header	Winuser.h (include Windows.h or Dbt.h)

See also

DBT_CONFIGCHANGECANCELED
DBT_CONFIGCHANGED
DBT_CUSTOMEVENT
DBT_DEVICEARRIVAL
DBT_DEVICEQUERYREMOVE
DBT_DEVICEQUERYREMOVEFAILED
DBT_DEVICEREMOVECOMPLETE
DBT_DEVICEREMOVEPENDING
DBT_DEVICETYPESPECIFIC
DBT_DEVNODES_CHANGED
DBT_QUERYCHANGECONFIG
DBT_USERDEFINED

Community Additions

Value

```
WM_DEVICECHANGE = &H219
Public Enum WM_DEVICECHANGE As Integer
    [TRUE] = 1
    BROADCAST_QUERY_DENY = &H424D5144
End Enum
Public Enum WM_DEVICECHANGE As Integer
    DBT_CONFIGCHANGECANCELED = &H19
    DBT_CONFIGCHANGED = &H18
    DBT_CUSTOMEVENT = &H8006
    DBT_DEVICEARRIVAL = &H8000
    DBT_DEVICEQUERYREMOVE = &H8001
    DBT_DEVICEQUERYREMOVEFAILED = &H8002
    DBT_DEVICEREMOVECOMPLETE = &H8004
    DBT_DEVICEREMOVEPENDING = &H8003
    DBT_DEVICETYPESPECIFIC = &H8005
    DBT_DEVNODES_CHANGED = &H7
    DBT_QUERYCHANGECONFIG = &H17
    DBT_USERDEFINED = &HFFFF
End Enum
```

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