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Registry:

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboal Layout

Configuring the layout with PowerShell

The keyboard layout, or more accurately, the mapping of scancodes can be configured in the registry with a simple PowerShell script.

```
$mapping = [byte[]] (
    0x00, 0x00, 0x00, 0x00,
    0x00, 0x00, 0x00,
    0x00, 0x00, 0x00,
    0x00, 0x00, 0x00,
    0x04, 0x00, 0x00, 0x00,
    0x04, 0x00, 0x3A, 0x00,
    # 1st mapping: Caps Lock to Escape
    0x3A, 0x00, 0x01, 0x00,
    # 2nd mapping: Escape to Casp Lock
    0x1D, 0xE0, 0x5C, 0xE0,
    # 3rd mapping: Left Windows to Left Control
    0x00, 0x00, 0x00, 0x00
    # final four bytes
}
new-itemProperty -path "HKLM:\SYSTEM\CurrentControlSet\Control\Keyboard Layout" -name "Scancode Map" -value $mapping -force
```

Github respository about-Windows-Registry, path: /HKEY_LOCAL_MACHINE/SYSTEM/CurrentControlSet/Control/Keyboard Layout/scancode-map.ps1

After changing the scan map, the computer needs to be restarted.

The following ascii-art tries to show the Scancode map more graphically:

Github respository about-Windows-Registry, path: /HKEY_LOCAL_MACHINE/SYSTEM/CurrentControlSet/Control/Keyboard Layout/Scancode Map

Changing the keybaord layout programatically

In order to change values under this registry key, administrator privileges are needed. Sometimes, they are not granted, effectively making it impossible to change the keyboard layout in the <u>registry</u>.

However, it's possible to programmatically create a keyboard hook to change scan codes on the fly. Such a program is swap keys.c.

IgnoreRemoteKeyboardLayout

Apparently, setting the value of IgnoreRemoteKeyboardLayout to 1 prevents a *Remote Desktop* from using English (or the language of the Remote Client?) as default input language. (as per Neno Loje's Blog)

See also

keyboard

The kbfltr example from the Win2K DDK.

The default value of the registry key

HKEY LOCAL MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\IniFileMapping\KeyboardLayout.ini\Keyboard Layout.

Compare with https://www.ncentrol.keyboard Layouts

Links

Keyboard and mouse class drivers (docs.microsoft.com)

The Microsoft Keyboard Layout Creator (msklc.exe) create and modify keyboard layouts (.klc files). It can be downloaded from here.

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