

CARE

Installation Guide



CARE

10.08.01

INSTALLATION GUIDE

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APPLICABLE LITERATURE

Form No.	Title
EN2Z-0937GE51	Excel CARE User Guide
74-3556 (US) EN2B-0183GE51 (Europe)	Excel Live CARE User Guide Instructions for using Live CARE software to access controller files on-line and simulate operation
EN2Z-0940GE51	Excel CARE Control Icons User Guide Descriptions and application examples of control icons used in the CARE control strategy
EN2B-162GE51	RACL Editor User Guide Graphical Editor for creation of strategy logic programs for Excel 800/500 controllers.
74-3594 (US) EN2B-185GE51 (Europe)	ASPECD Editor User Guide Provides functions to modify the user interface for Excel Operator Terminals
EN2Z-0971GE51	Eagle User Guide Comprehensive description of the Onboard HMI Eagle controller function
EN2Z-0970GE51	EAGLE Web Interface User Guide Comprehensive description of the BACnet functions and operation of the EAGLE controller via Web interface
EN2Z-0929GE51	CL-Touch User Guide Detailed instructions for using the CL-Touch panel unit
EN2B-0092GE51	Excel 50/100/500/600/800 Software Description Fundamentals of the Excel 5000 system

Hardware Requirements

- Minimum Pentium PC 133 MHz (333 MHz highly recommended).
- Graphic board and monitor, which support at least 1024 x 768 pixel (1024 x 768 recommended)
- Minimum 32 MB RAM (128 MB recommended)
- Minimum* 100 free space on PC disk drive (200 MB recommended)
Printers supported by MS-Winword (HP LaserJet recommended)

* Check for free space while in Windows™. When Windows™ is running, it can use large pieces of disk space, for example, for a temporary swap file. If you check while in DOS, you may think you have enough memory, but you will have less after you start Windows™. For software localization and creation of local language installations, a minimum of 100 MB free disk space is required.

Software Requirements

- Microsoft® Windows 7, -8
For Enhanced Printout: Office 2007 and 2010 for Windows 7, Office 2007, 2010 and 365 for Windows 8
- For localization of the software components: Visual Localize 2.01.01 or higher.

INSTALLATION

Windows 7 and 8

Administrator Privileges

If CARE 10.08.01 is installed on a Windows 7 or Windows 8 PC, the CARE user must have administrator privileges. If the CARE user has set up the PC on which CARE will be installed, administrator privileges are automatically assigned to the user by default. If the CARE user has not set up the PC, the administrator must provide administrator privileges to the user or must install CARE on the user's PC.

IMPORTANT

CARE can only be run as non-administrator if it has been installed in any of the fore-mentioned ways.

The following CARE components cannot be installed under Windows 64-Bit Versions:

- LiveCARE
- ASPECD Editor
- RACL Editor

Windows 8

.NET

When installing CARE the first time, you must be connected to the internet to ensure proper installation of .NET.

LNS

With Windows 8 you cannot support LNS. Hence, all functions based on LNS, e.g. database synchronization and plugins, will not work. Normal LON engineering within CARE is fully supported.

Several Licenses of CARE 10.08.01 on Same PC?

It is only possible to install one Version of CARE 10.08.01 on the same PC.

Different CARE Versions on Same PC

When installing CARE 10.08.01 into a CARE folder where a previous CARE version is installed, all files of the previous CARE installation will be deleted. If you want to keep an old CARE version running on the same PC additionally to CARE 10.08.01, you should install CARE 10.08.01 into a different folder.

In case of installation of CARE 1.3.X and CARE 10.08.01 on the same PC, CARE 10.08.01 should not be installed into the "CARE"-subdirectory because this is the directory automatically used by the CARE 1.3.X setup procedure. Choose a different name, e.g. C:\CAR10.08.01 instead.

In case the element library of an already installed CARE version is different from the element library of CARE 10.08.01, run an element library backup in your legacy CARE version. This is required only for CARE 1.4.1 and higher. The element library backup could then be merged in the new CARE version via the "Database/Import/Element Library" command as soon as the new CARE version is installed.

Installation Path

The DOS path is restricted to 17 characters. This limit can easily be reached when selecting an installation directory consisting of several folder levels of which each level is relatively long. To use long paths to be displayed in the Windows Explorer without exceeding the DOS restriction it is recommended to use no subfolders. The folder name can then be as long as desired:

Example:

C:\CARE100_LICENSE_FOR_MR_KLEIN_ßTEST_30062012

The length of the DOS path affects also the function of the CAREDB.TAF file which CARE uses for its database functions. Your PC may already have an older version of this file that is in use by other RAIMA-type applications. To ensure that CARE finds the correct CAREDB.TAF file, the DOS path to the CARE installation directory should be less than 17 characters.

Centraline Software and CARE

It is possible to run CARE and ARENA, and COACH on the same PC at the same time.

General Procedure

1. Start Windows™ software, if not already operating.
2. Insert the protection plug containing the valid CARE license.
3. Check the amount of free disk space that is available on the drive where you want to install CARE.

IMPORTANT

If a CARE directory already exists, first back up the CARE database and Element Library, then copy your specific PIC and XFM files and the default files from the PCBSTD folder to a save location.

4. Download the CARE installation files from www.centraline.com.
5. Extract the .ZIP. file to a folder on a local PC drive.

IMPORTANT

CARE must not be installed from a network drive because the Repair and Modify functions will not be available.

6. For Windows 7 and 8, right-click the SETUP.EXE program and then click **Run as administrator**.

RESULT: The *Welcome* dialog box displays.

7. Click **Next >** to continue.

RESULT: A dialog box with the license agreement displays.

8. Read the license agreement carefully. Then click **Yes**

RESULT: The Choose Destination Location dialog box displays.

9. Keep default destination folder or click **Browse** button and choose another folder where you want CARE to be installed.

NOTES: The DOS path is restricted to 17 characters. This limit can easily be reached when selecting a destination location consisting of several folder levels of which each level is relatively long. To use long paths to be displayed in the Windows Explorer without exceeding the DOS restriction it is recommended to use no subfolders. The folder name can then be as long as desired:

Example:

C:\CARE1000_LICENSE_FOR_MR_KLEIN_βTEST_30052013

10. Click **Next >**.

RESULT: The Select Components dialog box displays.

11. Select the CARE components you want to be installed.

NOTES: To use ASPECd Editor and/or RACL Editor, an additional license has to be ordered.

DIN Element library installs a CARE database without elements, but with DIN pic files and one heating, cooling and air-conditioning element library.

12. Click **Next >** to continue.

RESULT: The *Select Program folder* dialog box displays.

13. Edit program folder name, if desired, or confirm by clicking **Next >**.

14. The *Start Copying Files* dialog box is displayed showing all selected components.

15. Click **Next >** to continue.

RESULT: Setup installs the selected components. Setup also creates a copy of the existing CARE.INI file in the Windows and WINNT directory, respectively.

After all files have been copied, the *InstallShield Wizard Complete* dialog box is displayed

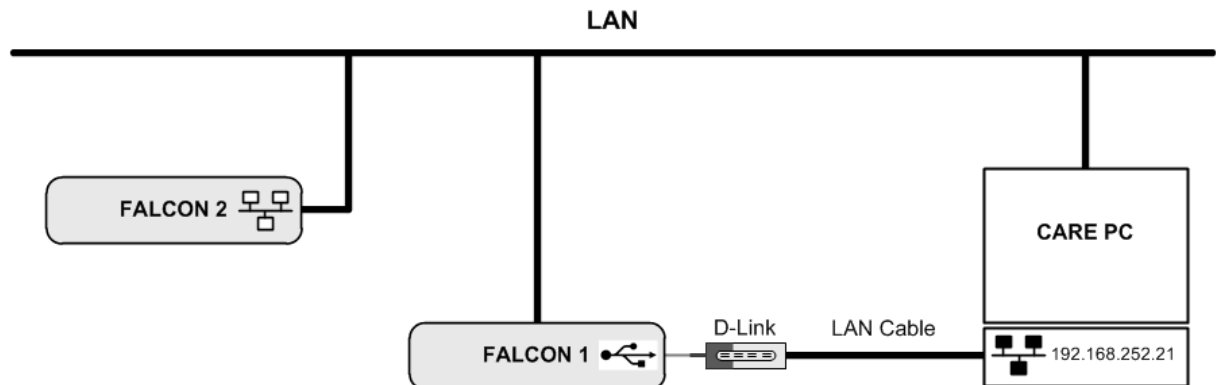
16. Click **Finish** to close the setup.

USB Driver Installation for Windows 7

FALCON Controller

NOTE: The access to the FALCON controller via USB from a Windows 7 PC does not need a driver installation for the D-Link DUB E100 USB adapter. A driver installation is only necessary if you would add a further USB network card to your PC using the D-Link DUB E100 USB adapter. If so, download the corresponding driver from the manufacturer's home page and install the driver via standard procedure for Windows 7 drivers.

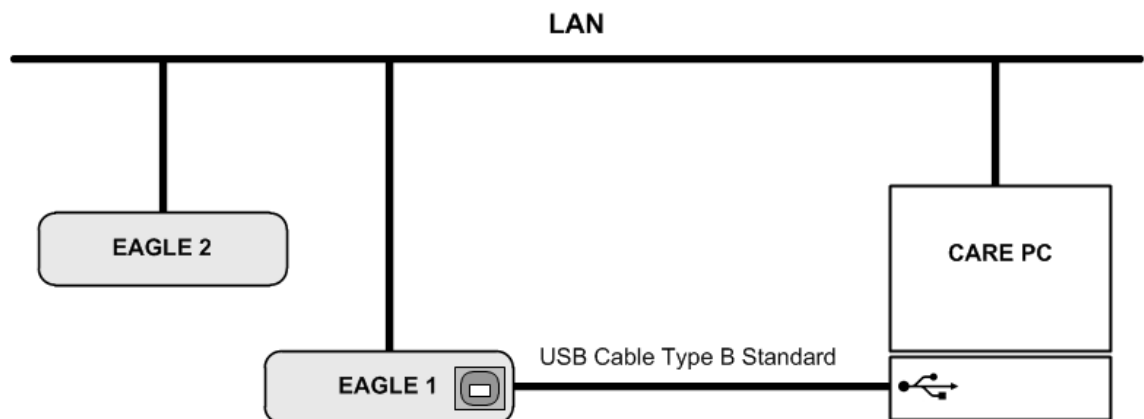
The FALCON controller will be connected to the CARE PC as shown in the following figure.



EAGLE Controller

For connecting the EAGLE controller to the CARE PC you need an USB cable of type A Male to type B Male (Type B standard).

The EAGLE controller will be connected to the CARE Windows 7 PC as shown in the following figure.



Driver Variants

Depending on the firmware version there are different ways to install the USB driver.

1. On most PC the update is done automatically with the Windows update function.
2. Or you can use the driver delivered with CARE (procedure starts with step 7).
3. For firmware 4.00.00 or higher you can use the Microsoft driver from your Windows 7 installation (procedure starts with step 17).

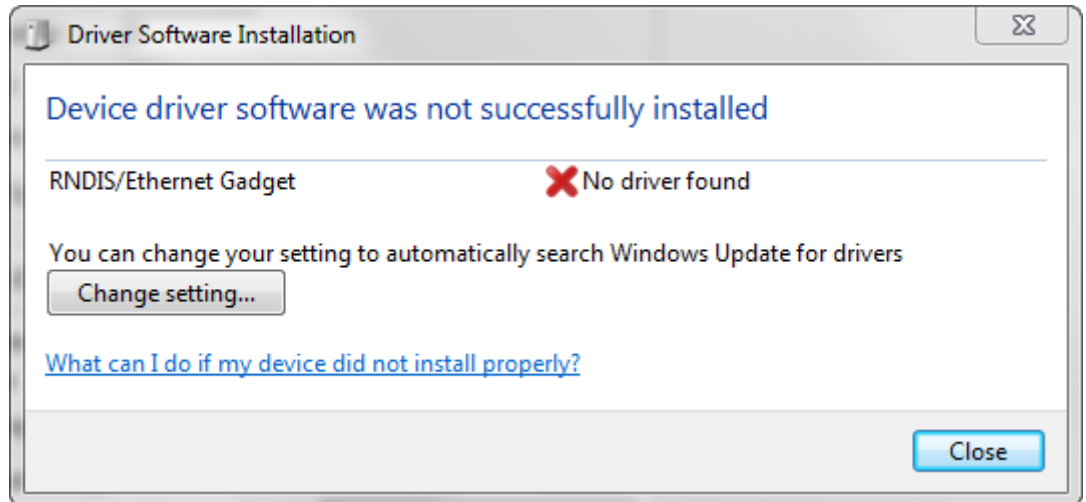
Procedure

1. Insert the A Male connector of the USB cable into an USB interface jack of the PC and insert the B Male connector into the controller's USB device interface jack.

RESULT: The Found New Hardware Wizard is enabled in the Windows Task Line.

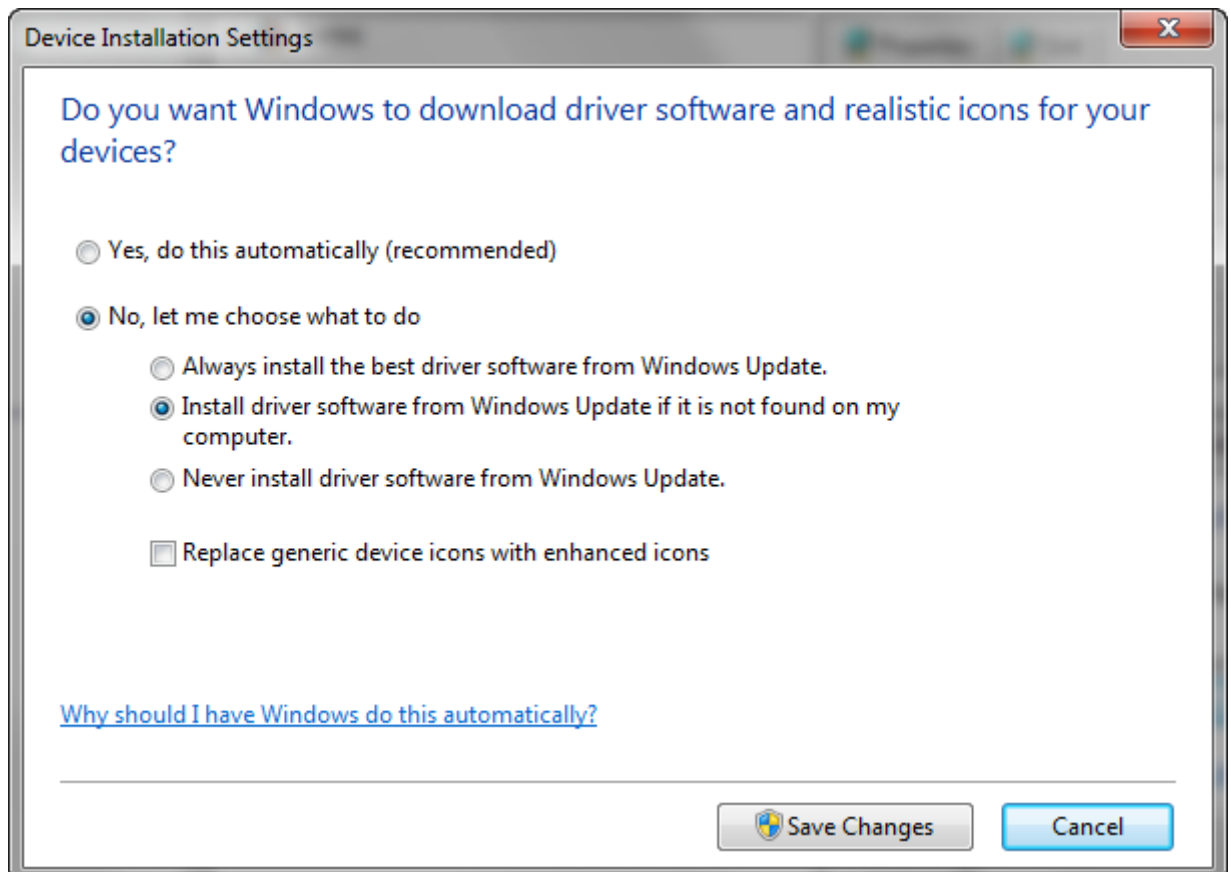
2. In the Windows Task Line, double-click the icon.

RESULT: The Driver Software Installation message box displays.



3. If no RNDIS/Ethernet Gadget driver was found as indicated by the message 'X No driver found', click **Change setting...** button.

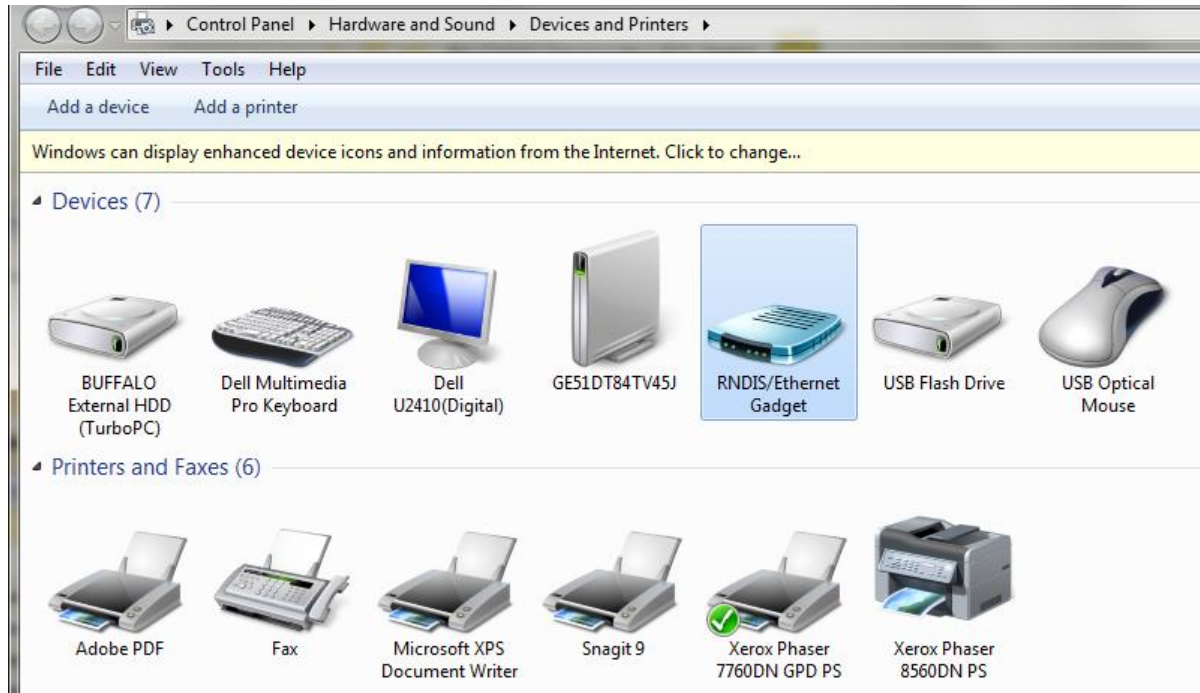
RESULT: The Device Installation Settings dialog box displays.



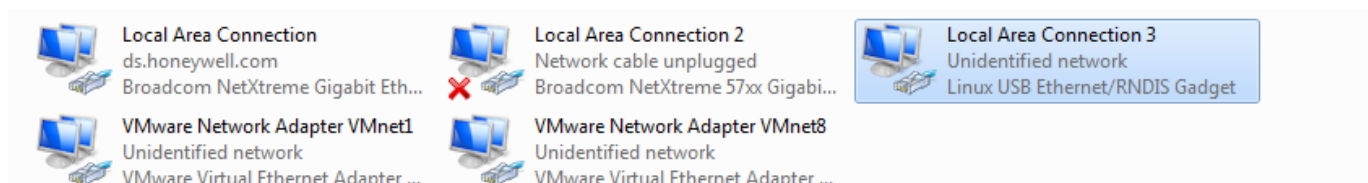
4. Select **No, let me choose what to do**, and then select **Install driver software from Windows Update if it is not found on my computer**.
5. Click **Save Changes** button.

RESULT: Software tries to install the RNDIS/Ethernet Gadget driver. If the driver is successfully installed, it can be seen in the following locations within Windows (see figures below):

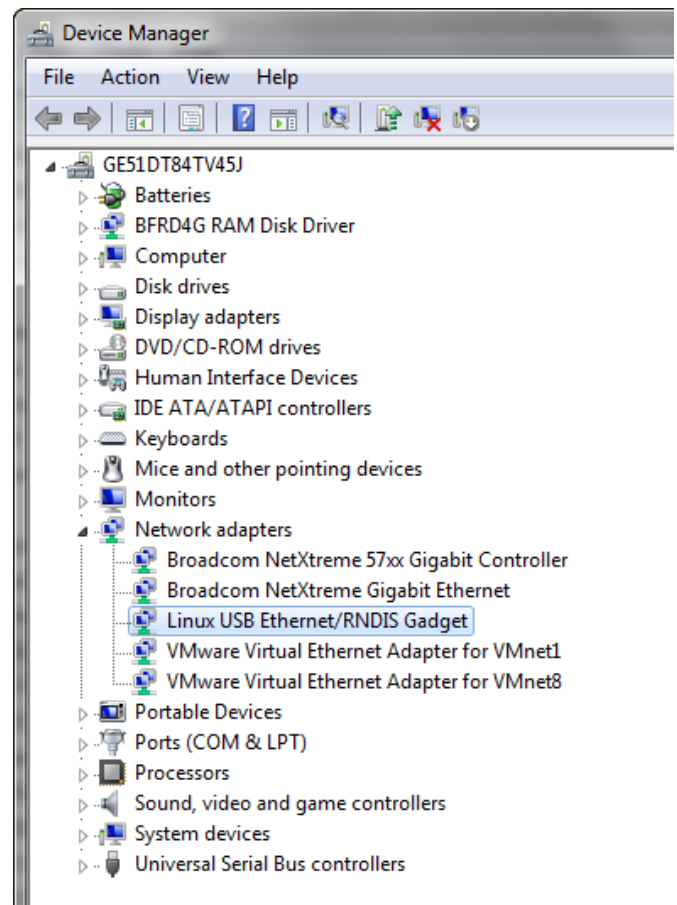
- In Control Panel \ Hardware and Sound \ Devices and Printers



- In Control Panel \ Network and Internet \ Network Connections

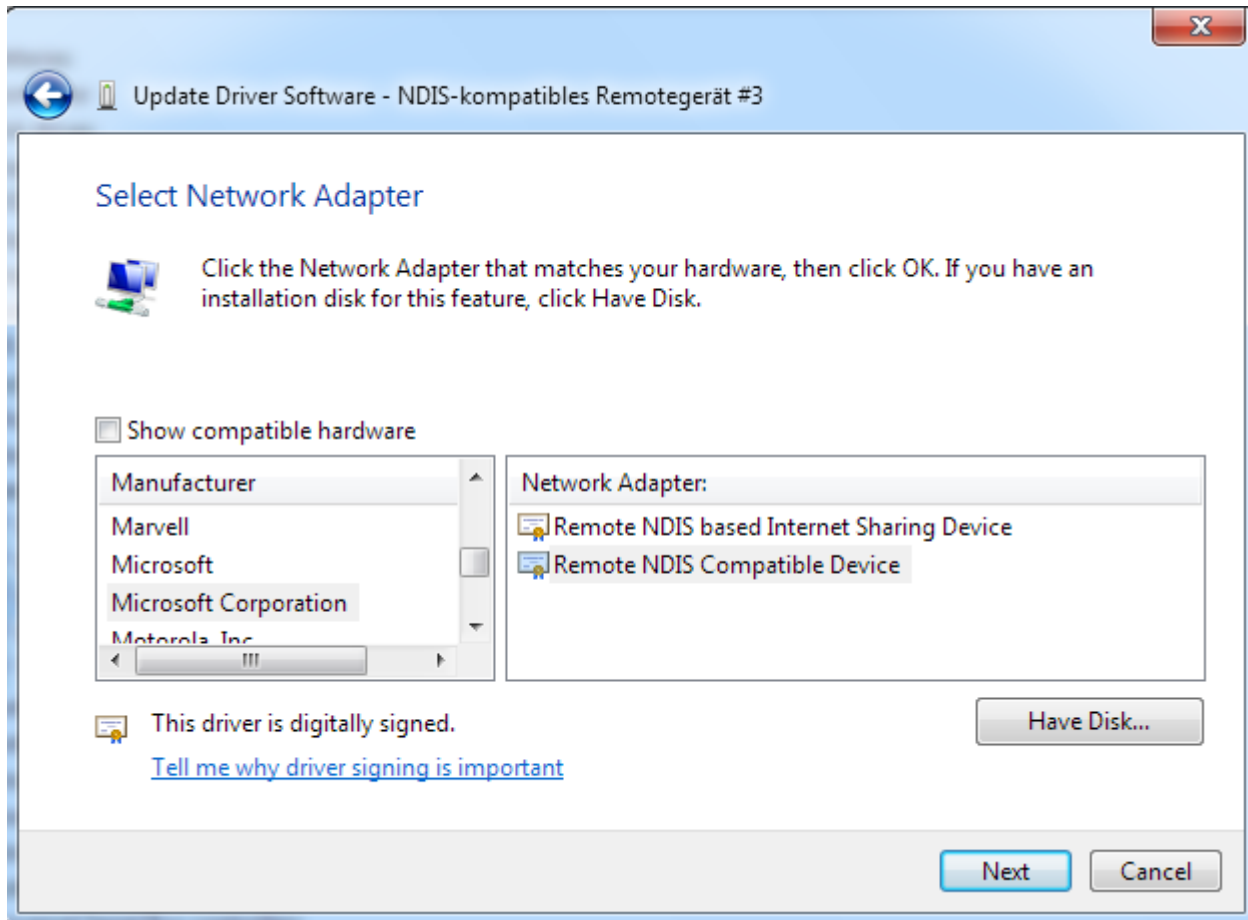


- In Control Panel \ Device Manager \ Network Adapters



6. If the driver has still not been successfully installed, do the following:
7. Right-click on the driver in the **Network adapters** folder in the *Device Manager*, and then click **Update Driver Software**.
8. Click **Browse my computer for driver software**
9. Click **Let me Pick from a list of device drivers on my computer**.
10. Click **Have Disk...**
11. Click **Browse...** and navigate to the folder <drive:>\CARE\drivers.
12. Depending on your Windows operating system type (32 bit or 64 bit), select the RNDIS USB driver (32Bit) or the RNDIS USB driver (64Bit) file, and then click **Open**.
13. Click **OK**.
14. Select **Linux USB Ethernet/RNDIS Gadget**, and then click **Next>**.
15. If a warning message displays, click **Continue Anyway**.
 RESULT: Windows will install the driver.
16. Click **Close**
17. Check the successful installation of the driver as described in step 5.
18. If this still does not work, use the driver shipped with Windows.
19. Right-click on the driver in the **Network adapters** folder in the *Device Manager*, and then click **Update Driver Software**.
20. Click **Browse my computer for driver software**

21. Click **Let me Pick from a list of device drivers on my computer**.
22. Uncheck the Show compatible hardware box
23. Select the Manufacturer Microsoft Corporation
24. Select Remote NDIS Compatible Device



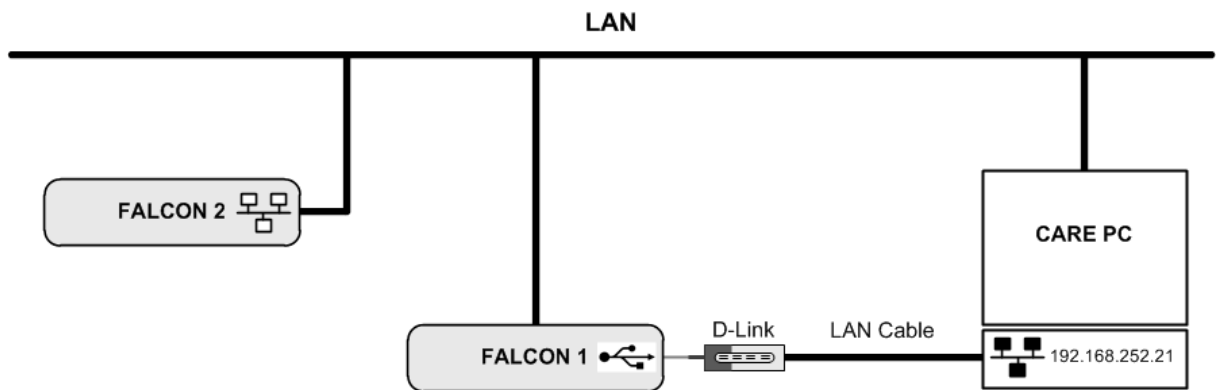
25. Check the successful installation of the driver as described in step 5.
26. If the device status is "This device cannot start. (Code 10)", reboot your PC.

USB Driver Installation for Windows 8

FALCON Controller

NOTE: The access to the FALCON controller via USB from a Windows 8 PC does not need a driver installation for the D-Link DUB E100 USB adapter. A driver installation is only necessary if you would add a further USB network card to your PC using the D-Link DUB E100 USB adapter. If so, download the corresponding driver from the manufacturer's home page and install the driver via standard procedure for Windows 7 drivers.

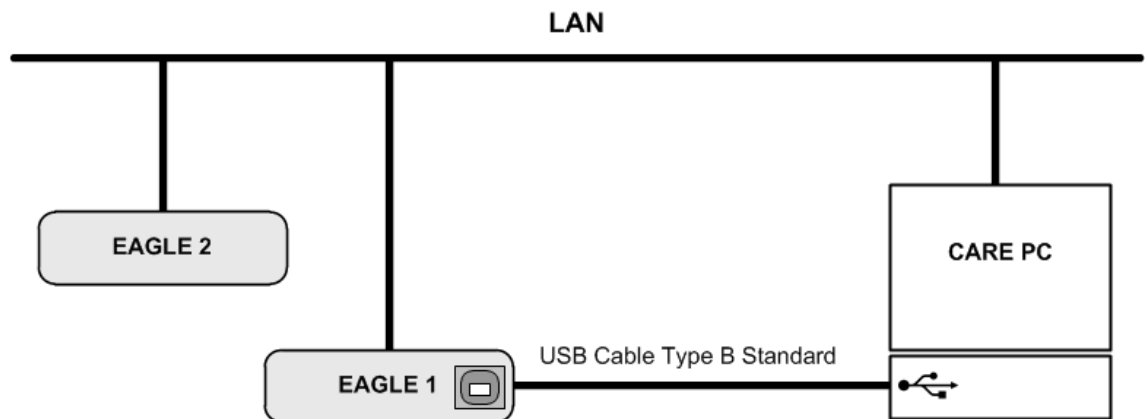
The FALCON controller will be connected to the CARE PC as shown in the following figure.



EAGLE Controller

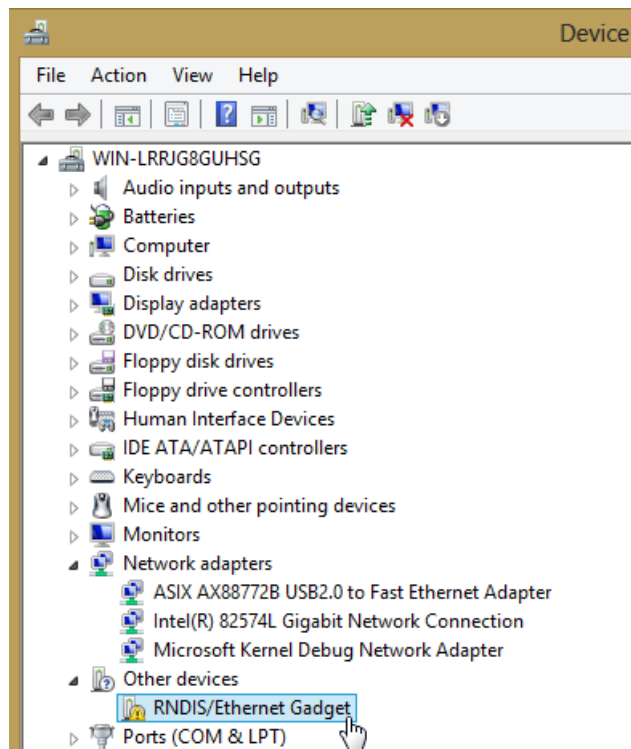
For connecting the EAGLE controller to the CARE PC you need an USB cable of type A Male to type B Male (Type B standard).

The EAGLE controller will be connected to the CARE Windows 8 PC as shown in the following figure.



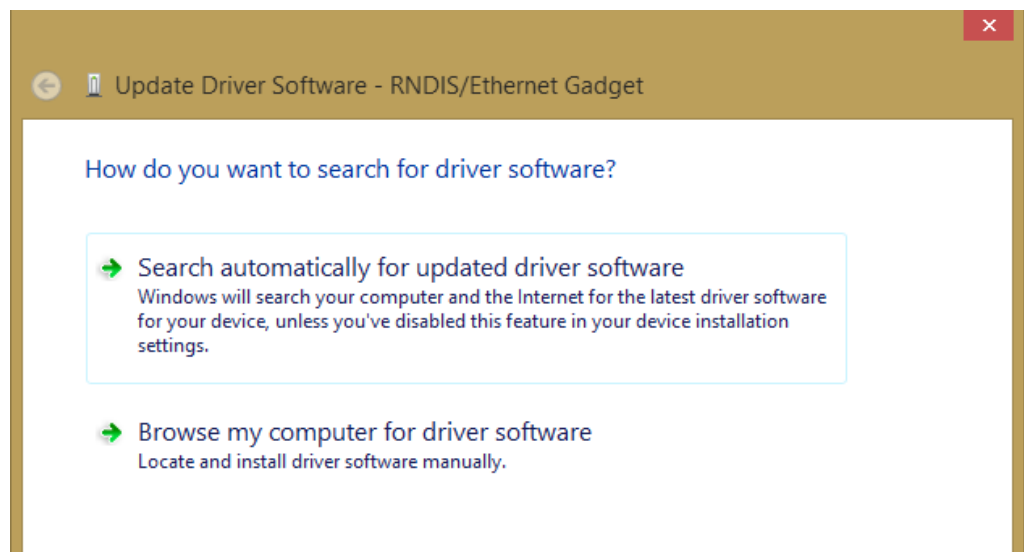
Procedure

1. Insert the A Male connector of the USB cable into an USB interface jack of the PC and insert the B Male connector into the controller's USB device interface jack.
2. In Windows, start the device manager.

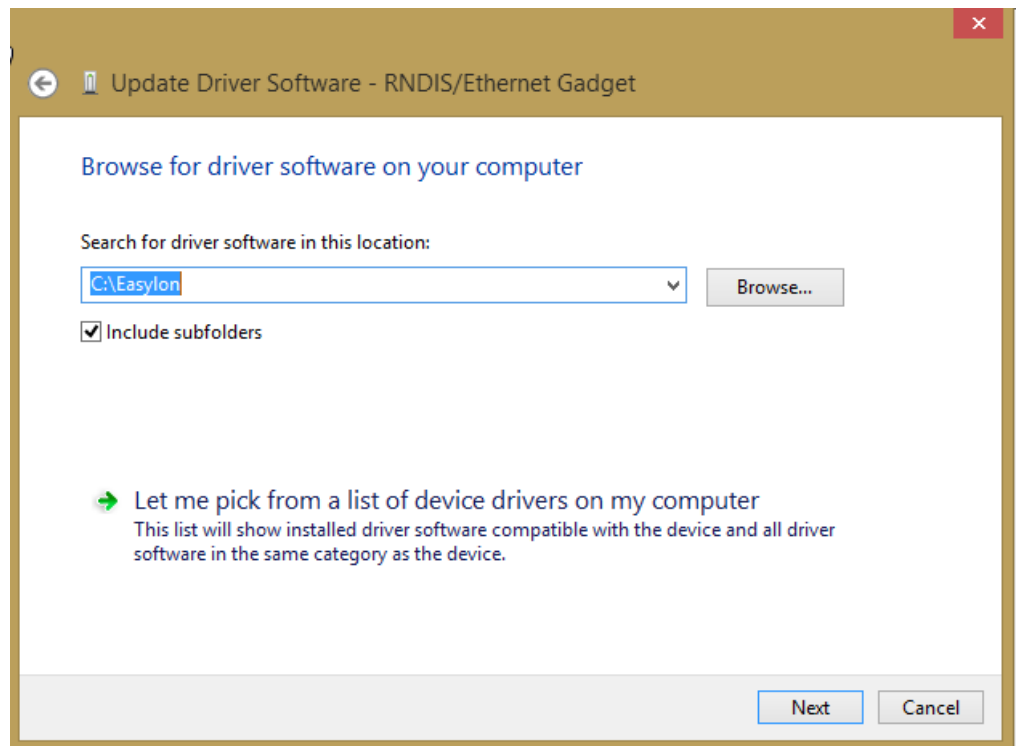


3. Click **Other devices**, then right-click **RNDIS/Ethernet Gadget** and then select **Update driver Software...**

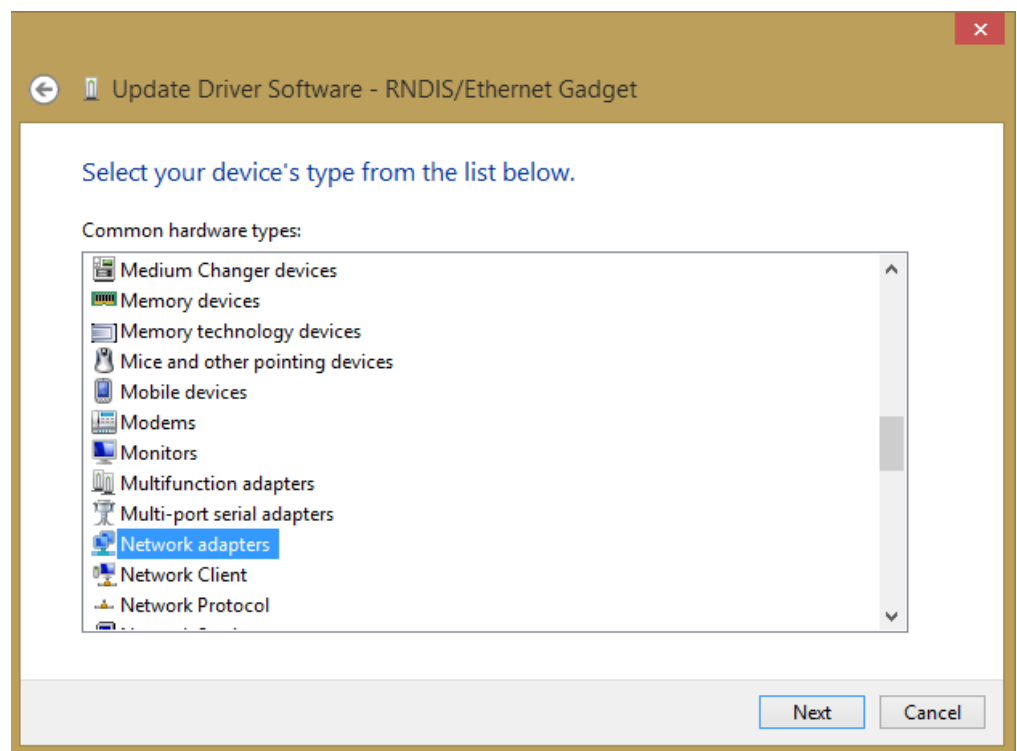
RESULT: The Update Driver Software – RNDIS/Ethernet Gadget dialog displays.



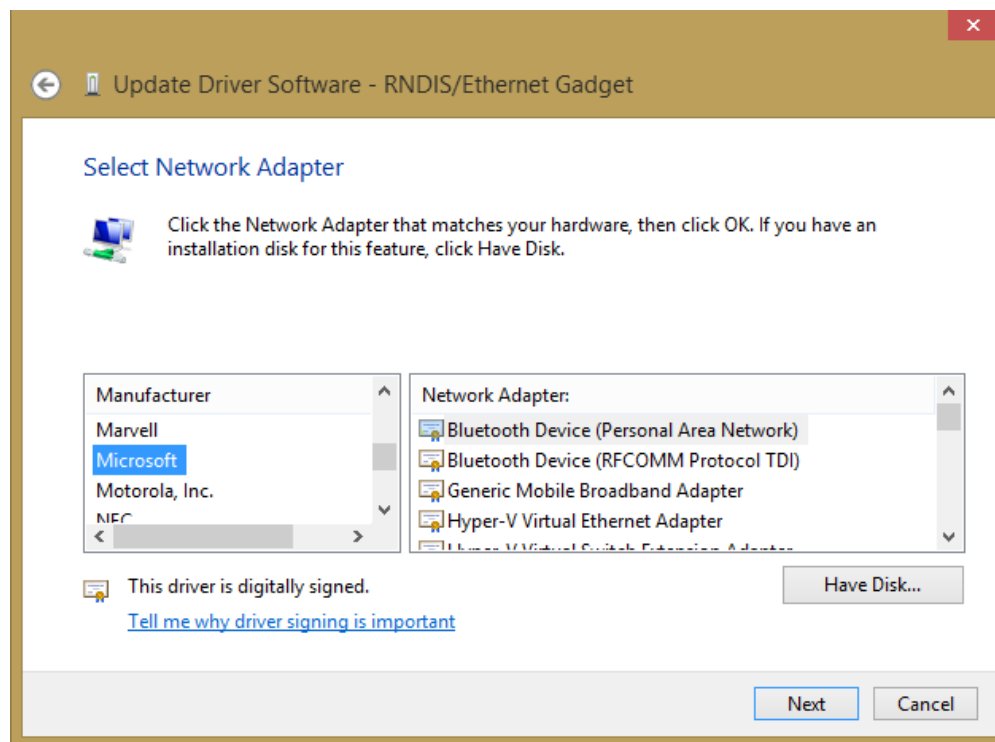
4. Click **Browse my computer for driver Software...**



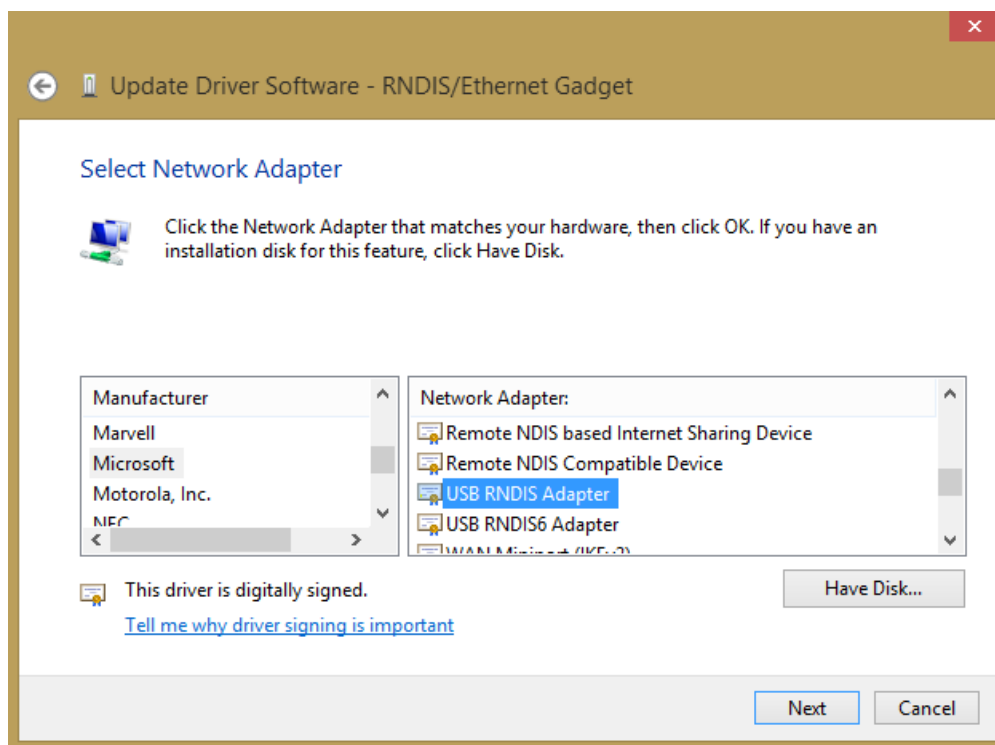
5. Click **Let me pick from a list of device drivers on my computer**.



6. Select **Network adapters**.

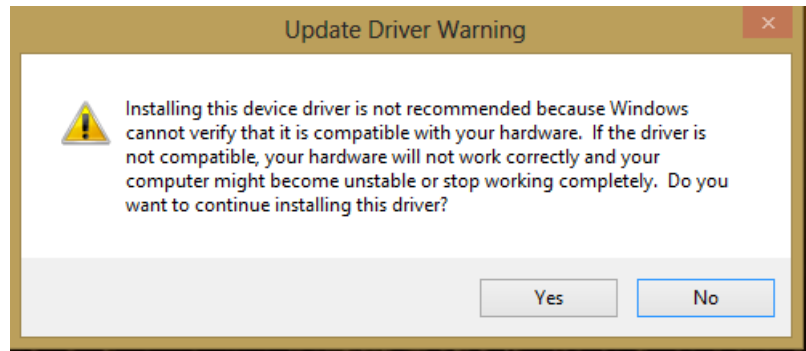


7. Select **Microsoft**.



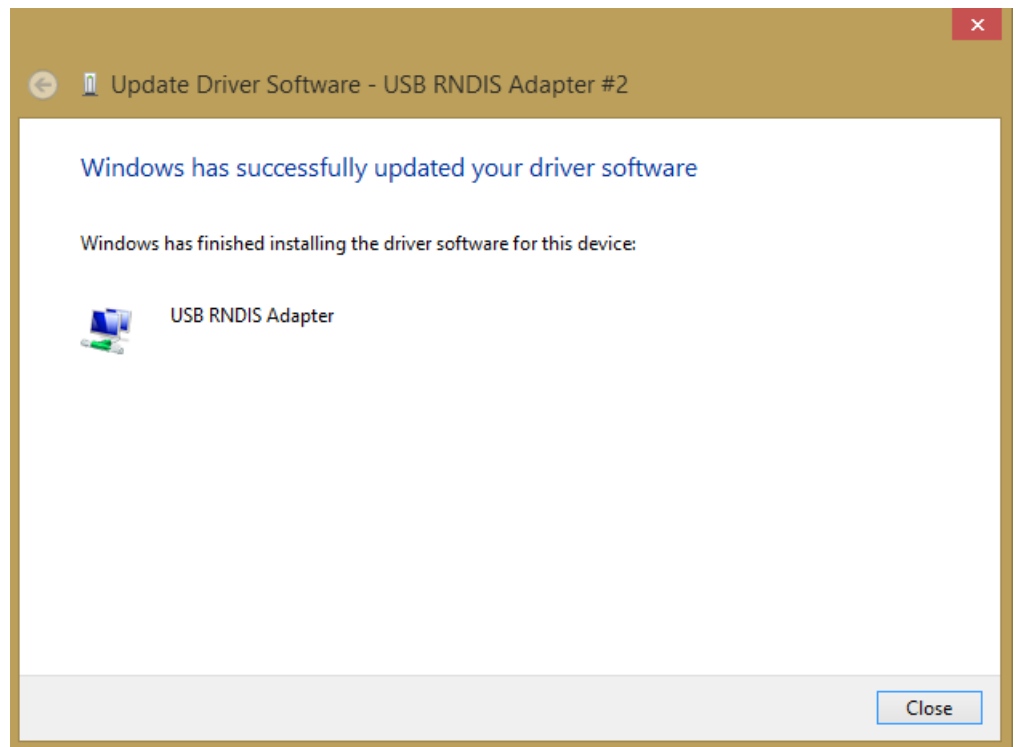
8. Select **USB-RNDIS-Adapter**, and then click **Next** button.

RESULT: The Update Driver Warning message box displays.



9. Confirm the warning by clicking **Yes** button.

RESULT: The driver will be installed successfully as indicated by the final message box.



10. Click **Close** button.

USB Driver Installation for Windows 10

For controllers with firmware 4.00.00 or higher, the appropriate driver is automatically installed with a Windows update. For firmware 3.04.05 or lower, the automatic installation does not work: Please download the appropriate USB driver prior to the installation at:

<http://catalog.update.microsoft.com/v7/site/ScopedViewRedirect.aspx?updateid=37e35bd4-d788-4b83-9416-f78e439f90a2>

Please connect the controller to the PC as described in the "USB Driver Installation for Windows 8" section and perform the general installation procedures for drivers in Windows 10.

Maintenance of CARE

The CARE Installation procedure is part of the CARE Setup Maintenance program, which includes a Repair and a Remove function in addition.

Modify

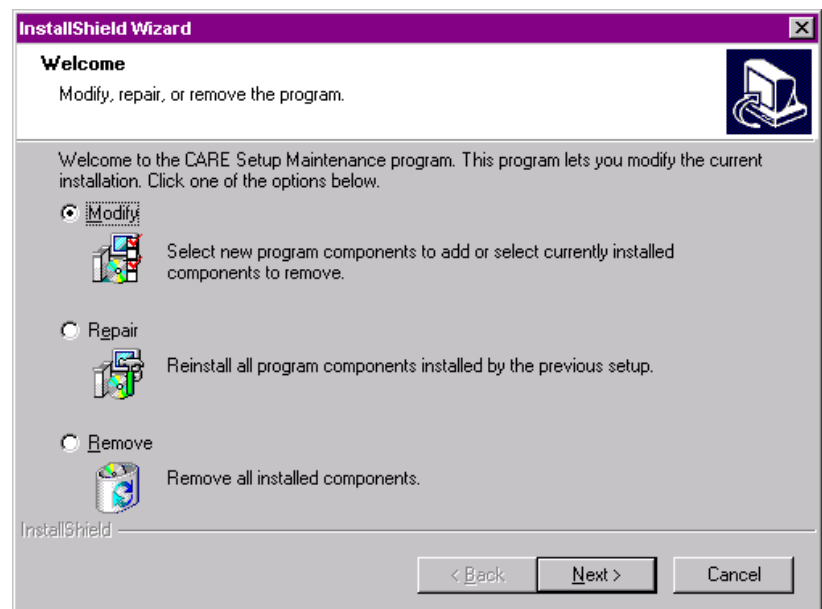
Use the Modify function to install additional components or to remove already installed components.

Repair

Use the Repair function for restoring files which have been deleted accidentally. The Repair function may corrupt CARE database files when restoring deleted database files.

Remove

Use the Remove function to completely remove the current CARE version from your PC. Note that all projects and the database will be deleted. Do the respective backups before using this maintenance option.



LICENSING

CARE can be ordered on a protection plug from the Customer Service Center. The CARE software can be downloaded at:

<http://web.ge51.honeywell.de/productsupport/website/tools.htm>

These versions are unregistered demo versions with restricted functionality (Evaluation mode).

IMPORTANT

Honeywell engineering software can only be ordered by Honeywell affiliates using the Honeywell ordering system. Thus, external customers must order via their Honeywell representative.

To continue with the whole functionality, you need a valid license key for the demo version. This key is provided on an USB protection plug. Depending on the license, various features are provided.

The licensing can quickly be done either by using the CARE License Manager (automatic background connection to the Honeywell License Server, or directly on the Honeywell License Server (<http://license.ge51.honeywell.de>)).

Procedure

1. Insert the USB protection plug that contains the valid license into an USB socket of the CARE PC.
2. Start CARE.
3. Open CARE Registration dialog box by clicking on Help menu.
4. Click menu item **Help**, then submenu item **Registration**.

RESULT: The License Manager window and its Online Help displays.

5. Follow the instructions on **How to activate a new license** described in the *Help on First Steps* window.

CUSTOMIZE WINDOWS DEFAULT REGIONAL AND LANGUAGE SETTINGS

In order to setup an Excel 5000 system that uses any language other than the respective Windows default language, you must customize the Regional and Language Options Settings in Windows as a prerequisite before working with COACH / CARE and COACH Online / Excel Online. In addition, for successful application engineering, the controller must be equipped with the appropriate firmware and XI582 with the appropriate EPROM.

For all settings to be done, please refer to the country and language settings table that lists the settings for:

- Windows
- COACH / CARE
- COACH Online / Excel Online
- XI852 EPROM
- Controller firmware

For information on coding special characters in Western, Eastern and Turkish languages, please refer to the character settings tables following the country and language settings table.

To customize Windows, refer to the procedure following the character settings tables.

Table 1. CentraLine Country and Language Settings

Country	Windows Version / Regional and Language Options Settings	COACH Country Selection	Controllers with Internal Text MMI		Controllers with Internal Graphic MMI	Controllers with External CLMMI00N2x	Controllers with CL-Touch	COACH Online
Controller Type			Tiger	Panther	Panther	Lion	Tiger, Panther, Lion	
OS-No			CLTG38L11 CLTG00MMI (required firmware)	CLPA13LC1x CLPA13LM1x CLPA21CM1x CLPA21LC1x CLPA21LM1x (required firmware)	CLPA13LC2x CLPA13LM2x CLPA21LC2x CLPA21LM2x (required firmware)	CLMMI00N2x (required hardware)	CLMMI00N31 (required firmware)	
Several	Arabic	not supported	not supported	not supported	not supported	not supported	not supported	not supported
Australia	English (Australia)	Australia	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
Albania	Albanian	Albanian	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	not supported	Western
Austria	German (Austria)	Austria	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
Belgium	Dutch (Belgium), French (Belgium)	Belgium	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
Bulgaria	Bulgarian	Bulgaria	not supported	not supported	EU50L207.02C or higher	XI581B/2B-EU	not supported	Cyrillic
Brazil	Portuguese (Brazil)	not supported	not supported	not supported	not supported	not supported	not supported	not supported
Canada	English (Canada)	not supported	not supported	not supported	not supported	not supported	not supported	not supported
China	Chinese (Simplified)	not supported	not supported	not supported	not supported	not supported	not supported	not supported

Country	Windows Version / Regional and Language Options Settings	COACH Country Selection	Controllers with Internal Text MMI		Controllers with Internal Graphic MMI	Controllers with External CLMMI00N2x	Controllers with CL-Touch	COACH Online
Controller Type			Tiger	Panther	Panther	Lion	Tiger, Panther, Lion	
OS-No			CLTG38L11 CLTG00MMI (required firmware)	CLPA13LC1x CLPA13LM1x CLPA21CM1x CLPA21LC1x CLPA21LM1x (required firmware)	CLPA13LC2x CLPA13LM2x CLPA21LC2x CLPA21LM2x (required firmware)	CLMMI00N2x (required hardware)	CLMMI00N31 (required firmware)	
Croatia	Croatian	Croatia	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	not supported	Central European
Czech Republic	Czech	Czech Republic	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	not supported	Central European
Denmark	Danish	Denmark	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	not supported	Western
Finland	Finnish	Finland	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	not supported	Western
France	French	France	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
Germany	German	Germany	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
Several	Hebrew	as desired	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	not supported	Western
Hungary	Hungarian	Hungary	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	not supported	Central European
Iceland	Icelandic	Iceland	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	not supported	Western
Ireland	English (Ireland)	United Kingdom	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
Italy	Italian	Italy	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
Japan	Japanese	not supported	not supported	not supported	not supported	not supported	2.0.5.3	not supported
Korea	Korean	not supported	not supported	not supported	not supported	not supported	not supported	not supported
Lithuania	Lithuanian	Lithuania	not supported	not supported	EU50L207.02C or higher	XI581B/2B-EU	not supported	Cyrillic
Macedonia	Macedonian	Macedonia	not supported	not supported	EU50L207.02C or higher	XI581B/2B-EU	not supported	Cyrillic
Mexico	Spanish (Mexico)	not supported	not supported	not supported	not supported	not supported	2.0.5.3	not supported
Morocco	French	Morocco	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
Nether- lands	Dutch	Netherlands	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
New Zealand	English (New Zealand)	not supported	not supported	not supported	not supported	not supported	2.0.5.3	not supported
Norway	Norwegian	Norway	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
Poland	Polish	Poland	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	not supported	Central European

Country	Windows Version / Regional and Language Options Settings	COACH Country Selection	Controllers with Internal Text MMI		Controllers with Internal Graphic MMI	Controllers with External CLMMI00N2x	Controllers with CL-Touch	COACH Online
Controller Type			Tiger	Panther	Panther	Lion	Tiger, Panther, Lion	
OS-No			CLTG38L11 CLTG00MMI (required firmware)	CLPA13LC1x CLPA13LM1x CLPA21CM1x CLPA21LC1x CLPA21LM1x (required firmware)	CLPA13LC2x CLPA13LM2x CLPA21LC2x CLPA21LM2x (required firmware)	CLMMI00N2x (required hardware)	CLMMI00N31 (required firmware)	
Portugal	Portuguese	Portugal	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	not supported	Western
Romania	Romanian	Romania	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	not supported	Central European
Russia	Russian	Russia	not supported	not supported	EU50L207.02C or higher	XI581B/2B-EU	not supported	Cyrillic
Serbia	Serbian (Latin, Bosnia and Herzegovina)	Serbia	not supported	not supported	EU50L207.02C or higher	XI581B/2B-EU	not supported	Cyrillic
Slovakia	Slovak	Slovakia	EU50L207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	not supported	Central European
Slovenia	Slovenian	Slovenia	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	not supported	Central European
Spain	Spanish	Spain	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
Sweden	Swedish	Sweden	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
Switzerland	German (Switzerland), French (Switzerland), Italian (Switzerland)	Switzerland France not supported	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
Taiwan	Chinese (Taiwan)	not supported	not supported	not supported	not supported	not supported	not supported	not supported
Tunisia	French	Tunisia	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
Turkey	Turkish	Turkey	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	not supported	Turkish
U.A.E.	Arabic (U.A.E.)	U.A.E. (not supported)	not supported	not supported	not supported	not supported	not supported	not supported
Ukraine	Ukrainian	Ukraine	not supported	not supported	EU50L207.02C or higher	XI581B/2B-EU	not supported	Cyrillic
United Kingdom	English (United Kingdom)	United Kingdom	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02C or higher	XI581B/2B-EU	2.0.5.3	Western
United States	English	not supported	not supported	not supported	not supported	not supported	2.0.5.3	not supported

Table 2 Honeywell Country and Language Settings

Country	Windows Version / Regional and Language Options Settings	CARE Country Code / Location Selection	Controllers with Internal Text MMI		Controllers with Internal Graphic MMI	Controllers with External XI581/2	Controllers with Excel Touch	XL Online
Controller Type			XL 40	XL 50	XL 50	XL100/500/800	XL50/100/500/800	
OS-No.			XL40A2MMI XL40AI (required firmware)	XL50-MMI-xxxx XL50D XL50A-MMI-xxxx XL50A-UMMI-xxxx (required firmware)	XL50CH XL50CY XL50TW XL50ACH XL50ACY XL50ATW (required firmware)	XI581/2 XI581B/2B (required hardware)	XI882A (required firmware)	
Several	Arabic	Arabic (not supported)	not supported	not supported	not supported	not supported	not supported	not supported
Australia	English (Australia)	Australia	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
Albania	Albanian	not supported	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Western
Austria	German (Austria)	Austria	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
Belgium	Dutch (Belgium), French (Belgium)	Belgium	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
Bulgaria	Bulgarian	Russia	not supported	not supported	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Cyrillic
Brazil	Portuguese (Brazil)	Brazil	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Western
Canada	English (Canada)	Canada	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
China	Chinese (Simplified)	PR China	not supported	not supported	EU50L207.02 C or higher	XI581B/2B-EU XI581B/2B-CH	not supported	CHINESE_ BIG5
Croatia	Croatian	Slovakia	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Central European
Czech Republic	Czech	Slovakia	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Central European
Denmark	Danish	Denmark	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Western
Finland	Finnish	Finland	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Western
France	French	France	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
Germany	German	Germany	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
Several	Hebrew	Hebrew	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Western
Hungary	Hungarian	Slovakia	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Central European
Iceland	Icelandic	Iceland	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Western
Ireland	English (Ireland)	Ireland	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western

Country	Windows Version / Regional and Language Options Settings	CARE Country Code / Location Selection	Controllers with Internal Text MMI		Controllers with Internal Graphic MMI	Controllers with External XI581/2	Controllers with Excel Touch	XL Online
Controller Type			XL 40	XL 50	XL 50	XL100/500/800	XL50/100/500/800	
OS-No.			XL40A2MMI XL40AI (required firmware)	XL50-MMI-xxxx XL50D XL50A-MMI-xxxx XL50A-UMMI-xxxx (required firmware)	XL50CH XL50CY XL50TW XL50ACH XL50ACY XL50ATW (required firmware)	XI581/2 XI581B/2B (required hardware)	XI882A (required firmware)	
Italy	Italian	Italy	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
Japan	Japanese	Japan	not supported	not supported	not supported	XI581B/2B-JP	2.0.5.3	Japanese
Korea	Korean	Korea	not supported	not supported	not supported	not supported	not supported	Western
Several	Several	Latin America	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Western
Lithuania	Lithuanian	not supported	not supported	not supported	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Cyrillic
Macedonia	Macedonian	Russia	not supported	not supported	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Cyrillic
Mexico	Spanish (Mexico)	Mexico	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
Morocco	French	France	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
Nether- lands	Dutch	Netherlands	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
New Zealand	English (New Zealand)	New Zealand	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
Norway	Norwegian	Norway	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
Poland	Polish	Slovakia	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Central European
Portugal	Portuguese	Portugal	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Western
Romania	Romanian	Slovakia	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Central European
Russia	Russian	Russia	not supported	not supported	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Cyrillic
Serbia	Serbian (Latin, Bosnia and Herzegovina)	not supported	not supported	not supported	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Cyrillic
Slovakia	Slovak	Slovakia	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Central European
Slovenia	Slovenian	Slovakia	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Central European
Spain	Spanish	Spain	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
Sweden	Swedish	Sweden	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
Switzerland	German (Switzerland), French (Switzerland), Italian (Switzerland)	Switzerland	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
Taiwan	Chinese (Taiwan)	Taiwan	not supported	not supported	TW50L207.02	XI581B/2B-TW	not supported	Thai

Country	Windows Version / Regional and Language Options Settings	CARE Country Code / Location Selection	Controllers with Internal Text MMI		Controllers with Internal Graphic MMI	Controllers with External XI581/2	Controllers with Excel Touch	XL Online
Controller Type			XL 40	XL 50	XL 50	XL100/500/800	XL50/100/500/800	
OS-No.			XL40A2MMI XL40AI (required firmware)	XL50-MMI-xxxx XL50D XL50A-MMI-xxxx XL50A-UMMI-xxxx (required firmware)	XL50CH XL50CY XL50TW XL50ACH XL50ACY XL50ATW (required firmware)	XI581/2 XI581B/2B (required hardware)	XI882A (required firmware)	
					C or higher			
Tunisia	French	France	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
Turkey	Turkish	Turkey	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Turkish
U.A.E.	Arabic (U.A.E.)	Arabic (not supported)	not supported	not supported	not supported	not supported	not supported	not supported
Ukraine	Ukrainian	Russia	not supported	not supported	EU50L207.02 C or higher	XI581B/2B-EU	not supported	Cyrillic
United Kingdom	English (United Kingdom)	United Kingdom	XL50I207.02C or higher	EU50L207.02C or higher	EU50L207.02 C or higher	XI581B/2B-EU	2.0.5.3	Western
United States	English	United States	XL50I207.02C or higher	EU50L207.02C or higher TW50L207.02C or higher XL50L207.02C or higher	EU50L207.02 C or higher TW50L207.02 C or higher XL50L207.02 C or higher	XI581B/2B-EU XI581B/2B-TW XI581B/2B-CH XI581B/2B-JP XI581B/2B-CY	2.0.5.3	Western

Table 3 Character Settings (Western Europe)

Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
20	32		32	SPACE
23	35	#	35	NUMBER SIGN
24	36	\$	36	DOLLAR SIGN
25	37	%	37	PERCENT SIGN
26	38	&	38	AMPERSAND
27	39	'	39	APOSTROPHE
28	40	(	40	LEFT PARENTHESIS
29	41	)	41	RIGHT PARENTHESIS
2E	46	.	46	FULL STOP
30	48	0	48	DIGIT ZERO

Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
31	49	1	49	DIGIT ONE
32	50	2	50	DIGIT TWO
33	51	3	51	DIGIT THREE
34	52	4	52	DIGIT FOUR
35	53	5	53	DIGIT FIVE
36	54	6	54	DIGIT SIX
37	55	7	55	DIGIT SEVEN
38	56	8	56	DIGIT EIGHT
39	57	9	57	DIGIT NINE
3A	58	:	58	COLON
40	64	@	64	COMMERCIAL AT
41	65	A	65	LATIN CAPITAL LETTER A
42	66	B	66	LATIN CAPITAL LETTER B
43	67	C	67	LATIN CAPITAL LETTER C
44	68	D	68	LATIN CAPITAL LETTER D
45	69	E	69	LATIN CAPITAL LETTER E
46	70	F	70	LATIN CAPITAL LETTER F
47	71	G	71	LATIN CAPITAL LETTER G
48	72	H	72	LATIN CAPITAL LETTER H
49	73	I	73	LATIN CAPITAL LETTER I
4A	74	J	74	LATIN CAPITAL LETTER J
4B	75	K	75	LATIN CAPITAL LETTER K
4C	76	L	76	LATIN CAPITAL LETTER L
4D	77	M	77	LATIN CAPITAL LETTER M
4E	78	N	78	LATIN CAPITAL LETTER N
4F	79	O	79	LATIN CAPITAL LETTER O
50	80	P	80	LATIN CAPITAL LETTER P
51	81	Q	81	LATIN CAPITAL LETTER Q
52	82	R	82	LATIN CAPITAL LETTER R
53	83	S	83	LATIN CAPITAL LETTER S
54	84	T	84	LATIN CAPITAL LETTER T
55	85	U	85	LATIN CAPITAL LETTER U
56	86	V	86	LATIN CAPITAL LETTER V
57	87	W	87	LATIN CAPITAL LETTER W
58	88	X	88	LATIN CAPITAL LETTER X
59	89	Y	89	LATIN CAPITAL LETTER Y
5A	90	Z	90	LATIN CAPITAL LETTER Z

Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
5F	95	_	95	LOW LINE
61	97	a	97	LATIN SMALL LETTER A
62	98	b	98	LATIN SMALL LETTER B
63	99	c	99	LATIN SMALL LETTER C
64	100	d	100	LATIN SMALL LETTER D
65	101	e	101	LATIN SMALL LETTER E
66	102	f	102	LATIN SMALL LETTER F
67	103	g	103	LATIN SMALL LETTER G
68	104	h	104	LATIN SMALL LETTER H
69	105	i	105	LATIN SMALL LETTER I
6A	106	j	106	LATIN SMALL LETTER J
6B	107	k	107	LATIN SMALL LETTER K
6C	108	l	108	LATIN SMALL LETTER L
6D	109	m	109	LATIN SMALL LETTER M
6E	110	n	110	LATIN SMALL LETTER N
6F	111	o	111	LATIN SMALL LETTER O
70	112	p	112	LATIN SMALL LETTER P
71	113	q	113	LATIN SMALL LETTER Q
72	114	r	114	LATIN SMALL LETTER R
73	115	s	115	LATIN SMALL LETTER S
74	116	t	116	LATIN SMALL LETTER T
75	117	u	117	LATIN SMALL LETTER U
76	118	v	118	LATIN SMALL LETTER V
77	119	w	119	LATIN SMALL LETTER W
78	120	x	120	LATIN SMALL LETTER X
79	121	y	121	LATIN SMALL LETTER Y
7A	122	z	122	LATIN SMALL LETTER Z
7E	126	~	126	TILDE
80	128	Ç	199	LATIN CAPITAL LETTER C WITH CEDILLA
81	129	ü	252	LATIN SMALL LETTER U WITH DIAERESIS
82	130	é	233	LATIN SMALL LETTER E WITH ACUTE
83	131	â	226	LATIN SMALL LETTER A WITH CIRCUMFLEX
84	132	ä	228	LATIN SMALL LETTER A WITH DIAERESIS
85	133	à	224	LATIN SMALL LETTER A WITH GRAVE
86	134	å	229	LATIN SMALL LETTER A WITH RING ABOVE
87	135	ç	231	LATIN SMALL LETTER C WITH CEDILLA
88	136	ê	234	LATIN SMALL LETTER E WITH CIRCUMFLEX

Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
89	137	ë	235	LATIN SMALL LETTER E WITH DIAERESIS
8A	138	è	232	LATIN SMALL LETTER E WITH GRAVE
8B	139	ï	239	LATIN SMALL LETTER I WITH DIAERESIS
8C	140	î	238	LATIN SMALL LETTER I WITH CIRCUMFLEX
8D	141	ì	236	LATIN SMALL LETTER I WITH GRAVE
8E	142	Ä	196	LATIN CAPITAL LETTER A WITH DIAERESIS
8F	143	Å	197	LATIN CAPITAL LETTER A WITH RING ABOVE
90	144	É	201	LATIN CAPITAL LETTER E WITH ACUTE
91	145	æ	230	LATIN SMALL LETTER AE
92	146	Æ	198	LATIN CAPITAL LETTER AE
93	147	ô	244	LATIN SMALL LETTER O WITH CIRCUMFLEX
94	148	ö	246	LATIN SMALL LETTER O WITH DIAERESIS
95	149	ò	242	LATIN SMALL LETTER O WITH GRAVE
96	150	û	251	LATIN SMALL LETTER U WITH CIRCUMFLEX
97	151	ù	249	LATIN SMALL LETTER U WITH GRAVE
98	152	ÿ	255	LATIN SMALL LETTER Y WITH DIAERESIS
99	153	Ö	214	LATIN CAPITAL LETTER O WITH DIAERESIS
9A	154	Ü	220	LATIN CAPITAL LETTER U WITH DIAERESIS
9B	155	ø	248	LATIN SMALL LETTER O WITH STROKE
9D	157	Ø	216	LATIN CAPITAL LETTER O WITH STROKE
9F	159	ƒ	402	LATIN SMALL LETTER F WITH HOOK
A0	160	á	225	LATIN SMALL LETTER A WITH ACUTE
A1	161	í	237	LATIN SMALL LETTER I WITH ACUTE
A2	162	ó	243	LATIN SMALL LETTER O WITH ACUTE
A3	163	ú	250	LATIN SMALL LETTER U WITH ACUTE
A4	164	ñ	241	LATIN SMALL LETTER N WITH TILDE
A5	165	Ñ	209	LATIN CAPITAL LETTER N WITH TILDE
A8	168	¿	191	INVERTED QUESTION MARK
B5	181	Á	193	LATIN CAPITAL LETTER A WITH ACUTE
B6	182	Â	194	LATIN CAPITAL LETTER A WITH CIRCUMFLEX
B7	183	À	192	LATIN CAPITAL LETTER A WITH GRAVE
C6	198	ã	227	LATIN SMALL LETTER A WITH TILDE
C7	199	Ã	195	LATIN CAPITAL LETTER A WITH TILDE
D0	208	ð	240	LATIN SMALL LETTER ETH
D1	209	Ð	208	LATIN CAPITAL LETTER ETH
D2	210	Ê	202	LATIN CAPITAL LETTER E WITH CIRCUMFLEX
D3	211	Ë	203	LATIN CAPITAL LETTER E WITH DIAERESIS

Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
D4	212	È	200	LATIN CAPITAL LETTER E WITH GRAVE
D5	213	ı	305	LATIN SMALL LETTER DOTLESS I
D6	214	Í	205	LATIN CAPITAL LETTER I WITH ACUTE
D7	215	Î	206	LATIN CAPITAL LETTER I WITH CIRCUMFLEX
D8	216	Ï	207	LATIN CAPITAL LETTER I WITH DIAERESIS
DE	222	ì	204	LATIN CAPITAL LETTER I WITH GRAVE
E0	224	Ó	211	LATIN CAPITAL LETTER O WITH ACUTE
E1	225	ß	223	LATIN SMALL LETTER SHARP S
E2	226	Ô	212	LATIN CAPITAL LETTER O WITH CIRCUMFLEX
E3	227	Ò	210	LATIN CAPITAL LETTER O WITH GRAVE
E4	228	õ	245	LATIN SMALL LETTER O WITH TILDE
E5	229	Õ	213	LATIN CAPITAL LETTER O WITH TILDE
E6	230	μ	181	MICRO SIGN
E7	231	þ	254	LATIN SMALL LETTER THORN
E8	232	Þ	222	LATIN CAPITAL LETTER THORN
E9	233	Ú	218	LATIN CAPITAL LETTER U WITH ACUTE
EA	234	Û	219	LATIN CAPITAL LETTER U WITH CIRCUMFLEX
EB	235	Û	217	LATIN CAPITAL LETTER U WITH GRAVE
EC	236	ý	253	LATIN SMALL LETTER Y WITH ACUTE
ED	237	Ý	221	LATIN CAPITAL LETTER Y WITH ACUTE
EF	239	´	180	ACUTE ACCENT
F8	248	°	176	DEGREE SIGN

Table 4 Character Settings (Eastern Europe)

Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
20	32		32	SPACE
23	35	#	35	NUMBER SIGN
24	36	\$	36	DOLLAR SIGN
25	37	%	37	PERCENT SIGN
26	38	&	38	AMPERSAND
27	39	'	39	APOSTROPHE
28	40	(	40	LEFT PARENTHESIS
29	41	)	41	RIGHT PARENTHESIS
2E	46	.	46	FULL STOP
30	48	0	48	DIGIT ZERO
31	49	1	49	DIGIT ONE
32	50	2	50	DIGIT TWO

Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
33	51	3	51	DIGIT THREE
34	52	4	52	DIGIT FOUR
35	53	5	53	DIGIT FIVE
36	54	6	54	DIGIT SIX
37	55	7	55	DIGIT SEVEN
38	56	8	56	DIGIT EIGHT
39	57	9	57	DIGIT NINE
3A	58	:	58	COLON
40	64	@	64	COMMERCIAL AT
41	65	A	65	LATIN CAPITAL LETTER A
42	66	B	66	LATIN CAPITAL LETTER B
43	67	C	67	LATIN CAPITAL LETTER C
44	68	D	68	LATIN CAPITAL LETTER D
45	69	E	69	LATIN CAPITAL LETTER E
46	70	F	70	LATIN CAPITAL LETTER F
47	71	G	71	LATIN CAPITAL LETTER G
48	72	H	72	LATIN CAPITAL LETTER H
49	73	I	73	LATIN CAPITAL LETTER I
4A	74	J	74	LATIN CAPITAL LETTER J
4B	75	K	75	LATIN CAPITAL LETTER K
4C	76	L	76	LATIN CAPITAL LETTER L
4D	77	M	77	LATIN CAPITAL LETTER M
4E	78	N	78	LATIN CAPITAL LETTER N
4F	79	O	79	LATIN CAPITAL LETTER O
50	80	P	80	LATIN CAPITAL LETTER P
51	81	Q	81	LATIN CAPITAL LETTER Q
52	82	R	82	LATIN CAPITAL LETTER R
53	83	S	83	LATIN CAPITAL LETTER S
54	84	T	84	LATIN CAPITAL LETTER T
55	85	U	85	LATIN CAPITAL LETTER U
56	86	V	86	LATIN CAPITAL LETTER V
57	87	W	87	LATIN CAPITAL LETTER W
58	88	X	88	LATIN CAPITAL LETTER X
59	89	Y	89	LATIN CAPITAL LETTER Y
5A	90	Z	90	LATIN CAPITAL LETTER Z
5F	95	_	95	LOW LINE
61	97	a	97	LATIN SMALL LETTER A
62	98	b	98	LATIN SMALL LETTER B

Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
63	99	c	99	LATIN SMALL LETTER C
64	100	d	100	LATIN SMALL LETTER D
65	101	e	101	LATIN SMALL LETTER E
66	102	f	102	LATIN SMALL LETTER F
67	103	g	103	LATIN SMALL LETTER G
68	104	h	104	LATIN SMALL LETTER H
69	105	i	105	LATIN SMALL LETTER I
6A	106	j	106	LATIN SMALL LETTER J
6B	107	k	107	LATIN SMALL LETTER K
6C	108	l	108	LATIN SMALL LETTER L
6D	109	m	109	LATIN SMALL LETTER M
6E	110	n	110	LATIN SMALL LETTER N
6F	111	o	111	LATIN SMALL LETTER O
70	112	p	112	LATIN SMALL LETTER P
71	113	q	113	LATIN SMALL LETTER Q
72	114	r	114	LATIN SMALL LETTER R
73	115	s	115	LATIN SMALL LETTER S
74	116	t	116	LATIN SMALL LETTER T
75	117	u	117	LATIN SMALL LETTER U
76	118	v	118	LATIN SMALL LETTER V
77	119	w	119	LATIN SMALL LETTER W
78	120	x	120	LATIN SMALL LETTER X
79	121	y	121	LATIN SMALL LETTER Y
7A	122	z	122	LATIN SMALL LETTER Z
7E	126	~	126	TILDE
80	128	Ç	199	LATIN CAPITAL LETTER C WITH CEDILLA
81	129	ü	252	LATIN SMALL LETTER U WITH DIAERESIS
82	130	é	233	LATIN SMALL LETTER E WITH ACUTE
83	131	â	226	LATIN SMALL LETTER A WITH CIRCUMFLEX
84	132	ä	228	LATIN SMALL LETTER A WITH DIAERESIS
85	133	û	367	LATIN SMALL LETTER U WITH RING ABOVE
86	134	ć	263	LATIN SMALL LETTER C WITH ACUTE
87	135	ç	231	LATIN SMALL LETTER C WITH CEDILLA
88	136	ł	322	LATIN SMALL LETTER L WITH STROKE
89	137	ë	235	LATIN SMALL LETTER E WITH DIAERESIS
8A	138	Ö	336	LATIN CAPITAL LETTER O WITH DOUBLE ACUTE
8B	139	ó	337	LATIN SMALL LETTER O WITH DOUBLE ACUTE

Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
8C	140	î	238	LATIN SMALL LETTER I WITH CIRCUMFLEX
8D	141	Ž	377	LATIN CAPITAL LETTER Z WITH ACUTE
8E	142	Ä	196	LATIN CAPITAL LETTER A WITH DIAERESIS
8F	143	Ć	262	LATIN CAPITAL LETTER C WITH ACUTE
90	144	É	201	LATIN CAPITAL LETTER E WITH ACUTE
91	145	Í	313	LATIN CAPITAL LETTER I WITH ACUTE
92	146	Í	314	LATIN SMALL LETTER I WITH ACUTE
93	147	ô	244	LATIN SMALL LETTER O WITH CIRCUMFLEX
94	148	ö	246	LATIN SMALL LETTER O WITH DIAERESIS
95	149	Ĺ	317	LATIN CAPITAL LETTER L WITH CARON
96	150	ĺ	318	LATIN SMALL LETTER L WITH CARON
97	151	Ŝ	346	LATIN CAPITAL LETTER S WITH ACUTE
98	152	ŝ	347	LATIN SMALL LETTER S WITH ACUTE
99	153	Ö	214	LATIN CAPITAL LETTER O WITH DIAERESIS
9A	154	Ü	220	LATIN CAPITAL LETTER U WITH DIAERESIS
9B	155	Ť	356	LATIN CAPITAL LETTER T WITH CARON
9C	156	ť	357	LATIN SMALL LETTER T WITH CARON
9D	157	Ł	321	LATIN CAPITAL LETTER L WITH STROKE
9F	159	č	269	LATIN SMALL LETTER C WITH CARON
A0	160	á	225	LATIN SMALL LETTER A WITH ACUTE
A1	161	í	237	LATIN SMALL LETTER I WITH ACUTE
A2	162	ó	243	LATIN SMALL LETTER O WITH ACUTE
A3	163	ú	250	LATIN SMALL LETTER U WITH ACUTE
A4	164	Ą	260	LATIN CAPITAL LETTER A WITH OGONEK
A5	165	ą	261	LATIN SMALL LETTER A WITH OGONEK
A6	166	Ž	381	LATIN CAPITAL LETTER Z WITH CARON
A7	167	ž	382	LATIN SMALL LETTER Z WITH CARON
A8	168	Ę	280	LATIN CAPITAL LETTER E WITH OGONEK
A9	169	ę	281	LATIN SMALL LETTER E WITH OGONEK
AB	171	ž	378	LATIN SMALL LETTER Z WITH ACUTE
AC	172	Č	268	LATIN CAPITAL LETTER C WITH CARON
AD	173	ş	351	LATIN SMALL LETTER S WITH CEDILLA
B5	181	Á	193	LATIN CAPITAL LETTER A WITH ACUTE
B6	182	Â	194	LATIN CAPITAL LETTER A WITH CIRCUMFLEX
B7	183	Ě	282	LATIN CAPITAL LETTER E WITH CARON
B8	184	Ş	350	LATIN CAPITAL LETTER S WITH CEDILLA
BD	189	Ž	379	LATIN CAPITAL LETTER Z WITH DOT ABOVE
BE	190	ž	380	LATIN SMALL LETTER Z WITH DOT ABOVE

Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
C6	198	Ă	258	LATIN CAPITAL LETTER A WITH BREVE
C7	199	ă	259	LATIN SMALL LETTER A WITH BREVE
D0	208	đ	273	LATIN SMALL LETTER D WITH STROKE
D1	209	Ð	272	LATIN CAPITAL LETTER D WITH STROKE
D2	210	Ď	270	LATIN CAPITAL LETTER D WITH CARON
D3	211	Ě	203	LATIN CAPITAL LETTER E WITH DIAERESIS
D4	212	ď	271	LATIN SMALL LETTER D WITH CARON
D5	213	Ň	327	LATIN CAPITAL LETTER N WITH CARON
D6	214	Í	205	LATIN CAPITAL LETTER I WITH ACUTE
D7	215	Î	206	LATIN CAPITAL LETTER I WITH CIRCUMFLEX
D8	216	ě	283	LATIN SMALL LETTER E WITH CARON
DD	221	Ť	354	LATIN CAPITAL LETTER T WITH CEDILLA
DE	222	Ů	366	LATIN CAPITAL LETTER U WITH RING ABOVE
E0	224	Ó	211	LATIN CAPITAL LETTER O WITH ACUTE
E1	225	ß	223	LATIN SMALL LETTER SHARP S
E2	226	Ô	212	LATIN CAPITAL LETTER O WITH CIRCUMFLEX
E3	227	Ŋ	323	LATIN CAPITAL LETTER N WITH ACUTE
E4	228	ñ	324	LATIN SMALL LETTER N WITH ACUTE
E5	229	ň	328	LATIN SMALL LETTER N WITH CARON
E6	230	Š	352	LATIN CAPITAL LETTER S WITH CARON
E7	231	š	353	LATIN SMALL LETTER S WITH CARON
E8	232	Ř	340	LATIN CAPITAL LETTER R WITH ACUTE
E9	233	Ú	218	LATIN CAPITAL LETTER U WITH ACUTE
EA	234	ř	341	LATIN SMALL LETTER R WITH ACUTE
EB	235	Ů	368	LATIN CAPITAL LETTER U WITH DOUBLE ACUTE
EC	236	ý	253	LATIN SMALL LETTER Y WITH ACUTE
ED	237	Ý	221	LATIN CAPITAL LETTER Y WITH ACUTE
EE	238	ť	355	LATIN SMALL LETTER T WITH CEDILLA
F8	248	°	176	DEGREE SIGN
FB	251	ů	369	LATIN SMALL LETTER U WITH DOUBLE ACUTE
FC	252	Ř	344	LATIN CAPITAL LETTER R WITH CARON
FD	253	ř	345	LATIN SMALL LETTER R WITH CARON

Table 5 Character Settings (Turkey)

Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
20	32		32	SPACE

Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
23	35	#	35	NUMBER SIGN
24	36	\$	36	DOLLAR SIGN
25	37	%	37	PERCENT SIGN
26	38	&	38	AMPERSAND
27	39	'	39	APOSTROPHE
28	40	(	40	LEFT PARENTHESIS
29	41	)	41	RIGHT PARENTHESIS
2E	46	.	46	FULL STOP
30	48	0	48	DIGIT ZERO
31	49	1	49	DIGIT ONE
32	50	2	50	DIGIT TWO
33	51	3	51	DIGIT THREE
34	52	4	52	DIGIT FOUR
35	53	5	53	DIGIT FIVE
36	54	6	54	DIGIT SIX
37	55	7	55	DIGIT SEVEN
38	56	8	56	DIGIT EIGHT
39	57	9	57	DIGIT NINE
3A	58	:	58	COLON
40	64	@	64	COMMERCIAL AT
41	65	A	65	LATIN CAPITAL LETTER A
42	66	B	66	LATIN CAPITAL LETTER B
43	67	C	67	LATIN CAPITAL LETTER C
44	68	D	68	LATIN CAPITAL LETTER D
45	69	E	69	LATIN CAPITAL LETTER E
46	70	F	70	LATIN CAPITAL LETTER F
47	71	G	71	LATIN CAPITAL LETTER G
48	72	H	72	LATIN CAPITAL LETTER H
49	73	I	73	LATIN CAPITAL LETTER I
4A	74	J	74	LATIN CAPITAL LETTER J
4B	75	K	75	LATIN CAPITAL LETTER K
4C	76	L	76	LATIN CAPITAL LETTER L
4D	77	M	77	LATIN CAPITAL LETTER M
4E	78	N	78	LATIN CAPITAL LETTER N
4F	79	O	79	LATIN CAPITAL LETTER O
50	80	P	80	LATIN CAPITAL LETTER P
51	81	Q	81	LATIN CAPITAL LETTER Q
52	82	R	82	LATIN CAPITAL LETTER R

Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
53	83	S	83	LATIN CAPITAL LETTER S
54	84	T	84	LATIN CAPITAL LETTER T
55	85	U	85	LATIN CAPITAL LETTER U
56	86	V	86	LATIN CAPITAL LETTER V
57	87	W	87	LATIN CAPITAL LETTER W
58	88	X	88	LATIN CAPITAL LETTER X
59	89	Y	89	LATIN CAPITAL LETTER Y
5A	90	Z	90	LATIN CAPITAL LETTER Z
5F	95	_	95	LOW LINE
61	97	a	97	LATIN SMALL LETTER A
62	98	b	98	LATIN SMALL LETTER B
63	99	c	99	LATIN SMALL LETTER C
64	100	d	100	LATIN SMALL LETTER D
65	101	e	101	LATIN SMALL LETTER E
66	102	f	102	LATIN SMALL LETTER F
67	103	g	103	LATIN SMALL LETTER G
68	104	h	104	LATIN SMALL LETTER H
69	105	i	105	LATIN SMALL LETTER I
6A	106	j	106	LATIN SMALL LETTER J
6B	107	k	107	LATIN SMALL LETTER K
6C	108	l	108	LATIN SMALL LETTER L
6D	109	m	109	LATIN SMALL LETTER M
6E	110	n	110	LATIN SMALL LETTER N
6F	111	o	111	LATIN SMALL LETTER O
70	112	p	112	LATIN SMALL LETTER P
71	113	q	113	LATIN SMALL LETTER Q
72	114	r	114	LATIN SMALL LETTER R
73	115	s	115	LATIN SMALL LETTER S
74	116	t	116	LATIN SMALL LETTER T
75	117	u	117	LATIN SMALL LETTER U
76	118	v	118	LATIN SMALL LETTER V
77	119	w	119	LATIN SMALL LETTER W
78	120	x	120	LATIN SMALL LETTER X
79	121	y	121	LATIN SMALL LETTER Y
7A	122	z	122	LATIN SMALL LETTER Z
7E	126	~	126	TILDE
80	128	Ç	199	LATIN CAPITAL LETTER C WITH CEDILLA
81	129	ü	252	LATIN SMALL LETTER U WITH DIAERESIS

Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
82	130	é	233	LATIN SMALL LETTER E WITH ACUTE
83	131	âyyy	226	LATIN SMALL LETTER A WITH CIRCUMFLEX
84	132	ä	228	LATIN SMALL LETTER A WITH DIAERESIS
85	133	à	224	LATIN SMALL LETTER A WITH GRAVE
86	134	å	229	LATIN SMALL LETTER A WITH RING ABOVE
87	135	ç	231	LATIN SMALL LETTER C WITH CEDILLA
88	136	ê	234	LATIN SMALL LETTER E WITH CIRCUMFLEX
89	137	ë	235	LATIN SMALL LETTER E WITH DIAERESIS
8A	138	è	232	LATIN SMALL LETTER E WITH GRAVE
8B	139	ï	239	LATIN SMALL LETTER I WITH DIAERESIS
8C	140	î	238	LATIN SMALL LETTER I WITH CIRCUMFLEX
8D	141	ı	305	LATIN SMALL LETTER DOTLESS I
8E	142	Ä	196	LATIN CAPITAL LETTER A WITH DIAERESIS
8F	143	Å	197	LATIN CAPITAL LETTER A WITH RING ABOVE
90	144	É	201	LATIN CAPITAL LETTER E WITH ACUTE
91	145	æ	230	LATIN SMALL LETTER AE
92	146	Æ	198	LATIN CAPITAL LETTER AE
93	147	ô	244	LATIN SMALL LETTER O WITH CIRCUMFLEX
94	148	ö	246	LATIN SMALL LETTER O WITH DIAERESIS
95	149	ò	242	LATIN SMALL LETTER O WITH GRAVE
96	150	û	251	LATIN SMALL LETTER U WITH CIRCUMFLEX
97	151	ù	249	LATIN SMALL LETTER U WITH GRAVE
98	152	İ	304	LATIN CAPITAL LETTER I WITH DOT ABOVE
99	153	Ö	214	LATIN CAPITAL LETTER O WITH DIAERESIS
9A	154	Ü	220	LATIN CAPITAL LETTER U WITH DIAERESIS
9B	155	ø	248	LATIN SMALL LETTER O WITH STROKE
9D	157	Ø	216	LATIN CAPITAL LETTER O WITH STROKE
9E	158	Ş	350	LATIN CAPITAL LETTER S WITH CEDILLA
9F	159	ş	351	LATIN SMALL LETTER S WITH CEDILLA
A0	160	á	225	LATIN SMALL LETTER A WITH ACUTE
A1	161	í	237	LATIN SMALL LETTER I WITH ACUTE
A2	162	ó	243	LATIN SMALL LETTER O WITH ACUTE
A3	163	ú	250	LATIN SMALL LETTER U WITH ACUTE
A4	164	ñ	241	LATIN SMALL LETTER N WITH TILDE
A5	165	Ñ	209	LATIN CAPITAL LETTER N WITH TILDE
A6	166	Ġ	286	LATIN CAPITAL LETTER G WITH BREVE
A7	167	ğ	287	LATIN SMALL LETTER G WITH BREVE
A8	168	¿	191	INVERTED QUESTION MARK

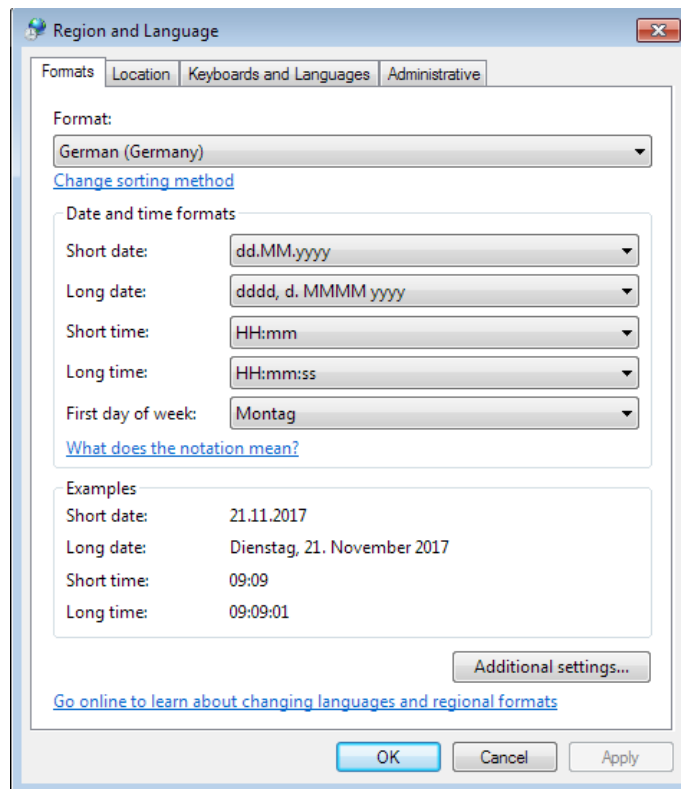
Hex	Dec	Char	Unicode	ISO/IEC 10646-1:2000 Character Name
B5	181	Á	193	LATIN CAPITAL LETTER A WITH ACUTE
B6	182	Â	194	LATIN CAPITAL LETTER A WITH CIRCUMFLEX
B7	183	Ã	192	LATIN CAPITAL LETTER A WITH GRAVE
C6	198	ã	227	LATIN SMALL LETTER A WITH TILDE
C7	199	Ä	195	LATIN CAPITAL LETTER A WITH TILDE
D2	210	Ê	202	LATIN CAPITAL LETTER E WITH CIRCUMFLEX
D3	211	Ë	203	LATIN CAPITAL LETTER E WITH DIAERESIS
D4	212	È	200	LATIN CAPITAL LETTER E WITH GRAVE
D6	214	Í	205	LATIN CAPITAL LETTER I WITH ACUTE
D7	215	Î	206	LATIN CAPITAL LETTER I WITH CIRCUMFLEX
D8	216	Ï	207	LATIN CAPITAL LETTER I WITH DIAERESIS
DE	222	Ì	204	LATIN CAPITAL LETTER I WITH GRAVE
E0	224	Ó	211	LATIN CAPITAL LETTER O WITH ACUTE
E1	225	ß	223	LATIN SMALL LETTER SHARP S
E2	226	Ô	212	LATIN CAPITAL LETTER O WITH CIRCUMFLEX
E3	227	Ò	210	LATIN CAPITAL LETTER O WITH GRAVE
E4	228	õ	245	LATIN SMALL LETTER O WITH TILDE
E5	229	Õ	213	LATIN CAPITAL LETTER O WITH TILDE
E6	230	μ	181	MICRO SIGN
E9	233	Ú	218	LATIN CAPITAL LETTER U WITH ACUTE
EA	234	Û	219	LATIN CAPITAL LETTER U WITH CIRCUMFLEX
EB	235	Ù	217	LATIN CAPITAL LETTER U WITH GRAVE
EC	236	ì	236	LATIN SMALL LETTER I WITH GRAVE
ED	237	ÿ	255	LATIN SMALL LETTER Y WITH DIAERESIS
F8	248	°	176	DEGREE SIGN

Windows 7

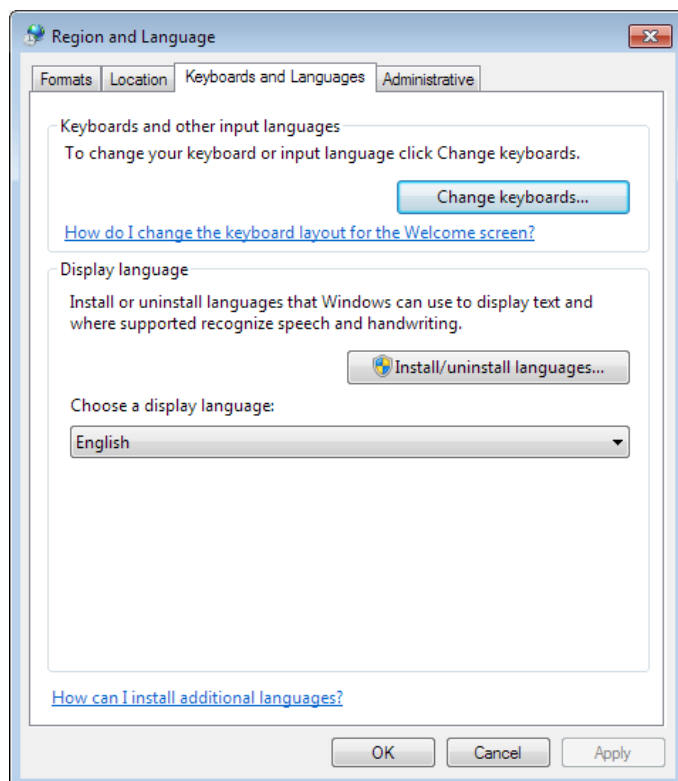
For adding different languages, Windows 7 Ultimate or Windows 7 Enterprise is required.

Procedure

1. In Windows, click **Start> Control panel**.
2. Double-click **Region and Language**. The *Region and Language* dialog box displays.



3. On the *Regional Options* tab under **Formats**, select the language for displaying standards and formats such as format numbers, currencies, dates, and time.
4. Under **Location**, select the matching country for supporting you with local services such as news and weather.
5. Select the *Keyboards and Languages* tab.

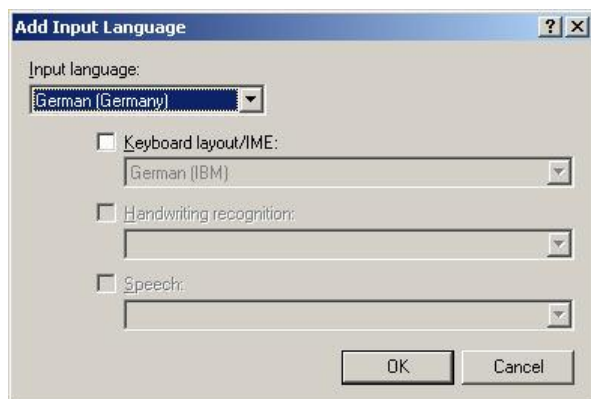


6. If you want to add additional languages, use the **Install/uninstall languages** button. This will download the required character sets from Microsoft Windows update.

7. Click **Change keyboards** button. The *Text Services and Input Languages* dialog box displays. The actual input language is selected in **Default input language** and the corresponding installed services are highlighted in bold under **Installed services**.



8. To add a new input language, click the **Add** button. The *Add Input Language* dialog box displays.



9. In **Input Language**, select the language, in this case Italian. Check/select optional settings for Keyboard layout/IME, Handwriting recognition and Speech if available and if desired.



10. Click **OK**. The new language and its services are added to the *Installed Services* list and can be selected as default input language.



11. In **Default input language**, select the language, in this case Italian.



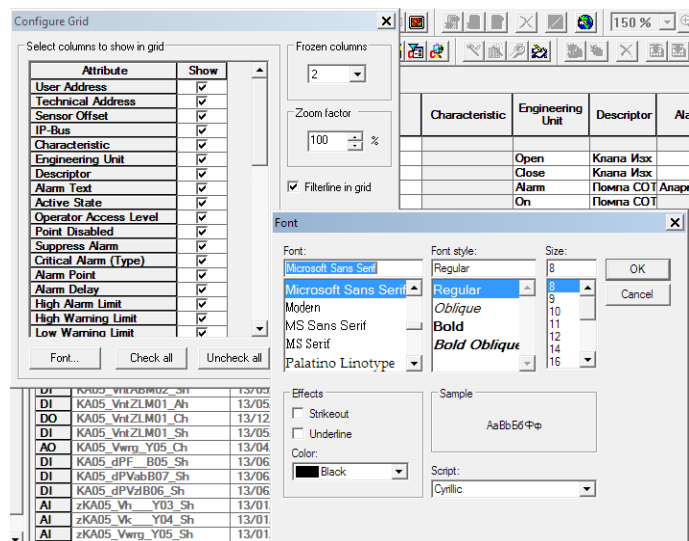
12. In the *Text Services and Input Languages* dialog box, click the **Language bar** button. The *Language Bar Settings* dialog box displays. Check **Show the Language bar on the desktop** and **Show additional Language bar icons in the taskbar**. These enabled options allow toggling between several language(s) on the desktop and in the taskbar after the customization is finished.



13. Click **OK**.
14. Restart the PC by clicking Yes. After restart, the new language, in this case Italian is added to the *Language bar*.



15. Check the language in the *Language* bar.
16. Start CARE 5000 or CARE BACnet. From the menu bar, select the item **Option**, and then the submenu item **Grid Configuration**.



17. Click on the **Font...** button, and then select the relevant script I,n this case *Cyrillic*.
18. Close both dialogs by clicking OK.
19. For selecting the language in CARE, COACH, XL-Online respectively in COACH Online, please refer to the corresponding Online Help and/or PDF documentation.

Manufactured for and on behalf of the Environmental and Combustion Controls Division of Honeywell Technologies Sàrl, Rolle, Z.A. La Pièce 16, Switzerland by its Authorized Representative:

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