User Guide

XENTRY Kit
XENTRY Kit MT
XENTRY Connect

Mercedes-Benz

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Overview of contents

1 New Features with XENTRY Kit 5
2 Scope of Supply 6
2.1 XENTRY Kit Scope of Supply 6
2.2 XENTRY Connect Scope of Supply 6
3 System Requirements and Network Integration 7
3.1 Network Profiles: Connecting the XENTRY Connect to the XENTRY Tab ... 7
3.2 Minimum Technical Requirements and Restrictions on Use of a Standard PC 7
4 Initial Startup & Configuration 9
4.1 Brief Overview of Initial XENTRY System Startup 9
4.2 Initial Startup of XENTRY Tab 9
4.3 Initial Startup & Configuration of the Overall System 12
4.4 Checking the Back-end Connections 16
4.5 Ordering StartKeys 17
5 XENTRY Connect 18
5.1 Technical Performance Features 18
5.2 Interfaces on the XENTRY Connect 18
5.3 XENTRY Connect Operating Panel 19
5.4 Starting and Shutting Down the XENTRY Connect 22
5.5 Battery Compartment 22
6 XENTRY Tab 23
6.1 Technical Performance Features 23
6.2 Interfaces on the XENTRY Tab 23
6.3 XENTRY Tab Function Buttons 24
6.4 Panasonic Dashboard 24
6.5 Virtual Keyboard 24
6.6 Own Software on the XENTRY Tab 24
6.7 XENTRY Tab Docking Station 24
6.8 Printers and Printing 25
6.9 Windows Settings 25
7 Connection of Accessories 26
7.1 XENTRY HMS 990 USB Measurement Technology 26
7.2 SBC Flash Box 26
7.3 MoTeIDis 26
7.4 Chip Card Reader 26
8 XENTRY Control 27
8.1 Starting XENTRY Control 27
8.2 XENTRY Control Selection Screen 27
8.3 Working with XENTRY Control and XENTRY Connect 29

9 Operating Tools 32
9.1 Support Tool 32
9.2 StartKey Center 33
9.3 UpdateAssist 34
9.4 AddOn Center 34
10 Update & Recovery 36
10.1 XENTRY Connect Update 36
10.2 XENTRY Connect Recovery 36
10.3 XENTRY Tab Update 37
10.4 XENTRY Tab Recovery 37
11 Service & Support 38
11.1 Diagnosis User Help Desk (UHD) 38
11.2 Accessory Article Order Numbers 38
11.3 Activation of the Wireless Network Connection/WLAN Adapter 39
12 Safety information and product liability 40
12.1 General Safety Information 40
12.2 XENTRY Connect Safety Information 40
12.3 XENTRY Tab Safety Information 41
12.4 XENTRY HMS 990 USB Measurement Technology Safety Information 41
12.5 Theft Protection 41
12.6 Product liability 41
13 Certification 42
13.1 Device Certification 42
13.2 WLAN Certification 42
14 List of Illustrations 47
15 Windows 7 License Guidelines 48

1 New Features with XENTRY Kit

The essential new feature with XENTRY Kit in comparison with Star Diagnosis is that a PC section with operating system (Windows 7) has been added to the XENTRY Connect multiplexer; the diagnosis applications, such as e.g. XENTRY Diagnostics, run on the XENTRY Connect. Operation and display are carried out using the XENTRY Tab tablet PC or optionally with a standard Windows 7 PC.

This all functions according to the concept of a remote connection, so that access to XENTRY Connect takes place from the XENTRY Tab / standard PC. This is carried out with the new XENTRY Control software, which establishes the necessary remote connection and enables operation.

In summary, the XENTRY Kit product concept offers various advantages:

- Improvement of system stability through direct, cable-based communication between the vehicle and XENTRY Connect (vehicle-near diagnosis)
- New working options:
  - An employee can work in parallel on several vehicles with one XENTRY Tab and several XENTRY Connect devices
  - An employee can request help and be supported by a colleague on his XENTRY Connect
- Increased flexibility through the alternative option of using a standard PC instead of the XENTRY Tab

The new diagnostic generation is available in the three versions:

- XENTRY Kit (XENTRY Connect & XENTRY Tab)
- XENTRY Kit MT (XENTRY Kit & HMS 990 USB Measurement Technology)
- XENTRY Connect (XENTRY Connect only)

Note: Unless explicitly stated, only the terms XENTRY Kit or XENTRY Tab will be used in the following; a distinction will only be made between the product versions or XENTRY Tab / standard PC in individual cases.

Which steps will be required before you can begin diagnosis?

These brief instructions provide a simplified overview. Also read through the following chapters in this user guide under all circumstances to enable you to work properly with the XENTRY system..

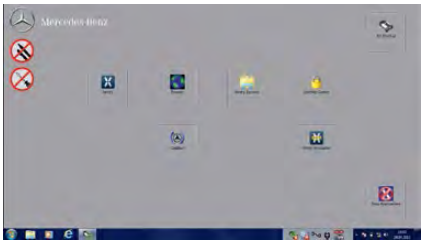
Step 1: Switch on both devices.

Step 2: Configuration of both devices for your network, i.e. you have to configure the XENTRY Connect and XENTRY Tab.

Step 3: Call the XENTRY Control software using the link on the XENTRY Tab.

Step 4: Connection to a free XENTRY Connect with which you would like to work.

Step 5: Usual work procedure: once the connection to the XENTRY Connect has been established, you will see the Diagnosis Desktop. This runs on the XENTRY Connect. Here, you can launch and continue to work as usual with familiar diagnostic programs such as e.g. XENTRY Diagnostics.



2 Scope of Supply

The scopes of supply differ depending on which system version you have requested.

2.1 XENTRY Kit Scope of Supply

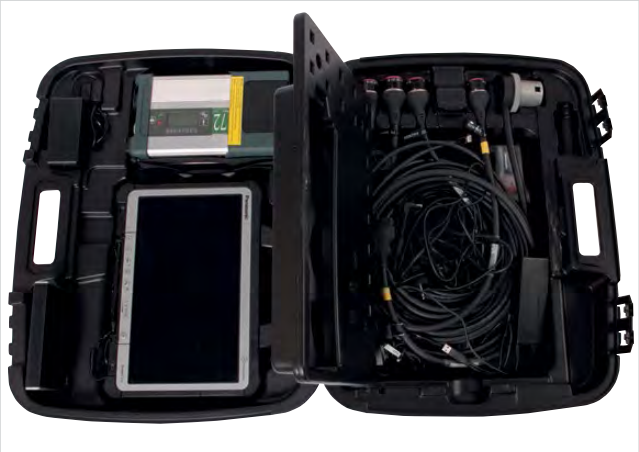


Figure 1: XENTRY Kit Scope of Supply

Components

XENTRY Tab + power supply unit
XENTRY Connect multiplexer + power supply unit
Set of small parts
Ethernet connecting cable 5 m
8-pin, 14-pin, 16-pin, 38-pin cables

User documentation

User guide
User manual for XENTRY diagnostic systems
3 help cards
Panasonic safety information

Accessories

Blu-ray disc drive + power supply unit
XENTRY Connect update BD
XENTRY Control software update DVD
XENTRY Kit e-training CD

2.2 XENTRY Connect Scope of Supply

Figure 2: XENTRY Connect Scope of Supply

Components

XENTRY Connect multiplexer + power supply unit
Set of small parts
Ethernet connecting cable 5 m
8-pin, 14-pin, 16-pin, 38-pin cables

User documentation

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User manual for XENTRY diagnostic systems
2 help cards

Accessories

Blu-ray disc drive + power supply unit
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XENTRY Control software update DVD
XENTRY Kit e-training CD

3 System Requirements and Network Integration

- XENTRY Kit supports the WLAN standard 802.11a/b/h/g. The minimum requirement for the WLAN network is IEEE 802.11g wireless radio operation with a bandwidth of 2.4 GHz.

- We recommend encryption type WPA2 for configuring your WLAN network. This encryption type offers the greatest security. Encryption type WEP is no longer supported by the new product concept.

- Make sure that the WLAN connection between XENTRY Connect and Access Point is not screened e.g. by vehicles or metal cabinets.

- If you operate your devices in Service24h mode, please note that no online connection to back-end systems (e.g. After Sales Portal, XENTRY Flash, add-ons, etc.) is available in this mode.

- Make sure that the components' MAC addresses (XENTRY Connect and XENTRY Tab/standard PC) are enabled for your workshop's WLAN and LAN on the DHCP server.

- Please note that the number of systems which can access the Internet at the same time is restricted in certain workshops. With the XENTRY Kit, two components can access the Internet. If necessary, clarify this with your IT manager.

- Please note that you require two LAN sockets plus an additional LAN cable (recommended length 20 m) per workstation to operate the devices in workshop mode via LAN, as only one LAN cable is supplied with the XENTRY Kit. If you only have one LAN socket per workstation, we recommend the use of a commercially available LAN hub/splitter.

- When installing printers, make sure that these use a current Windows 7 printer driver. Only printers compatible with Windows 7 are supported by the system.

- For the XENTRY Kit to function correctly, a DNS service must be accessible in the workshop's network. The recommended configuration for XENTRY Kit is automatic procurement of the IP address configuration via a DHCP server in the internal network. This recommendation applies in equal measure to both large and small companies.

Further information on this is also available in the Connectivity Guide in the After Sales Portal.

Note:
Always integrate the devices into your network using the Daimler XENTRY Control software (ConfigAssist or expert configuration). Do not configure the devices using the Windows network and release center.

3.1 Network Profiles: Connecting the XENTRY Connect to the XENTRY Tab

XENTRY Kit offers two different network profiles.
The workshop mode for online connection to the central systems and the Internet, and Service24h mode without online connection for a direct connection between the devices.

3.2 Workshop Mode

XENTRY Kit can be operated in a cable network (LAN) or in a WLAN network.

- **WLAN workshop mode:** Workshop IT infrastructure with Access Point as a base station; both components are integrated into the infrastructure via WLAN.

- **LAN workshop mode:** Both components are integrated into the infrastructure via cable. LAN workshop mode is the alternative if no wireless network (WLAN) is available or if the quality of the WLAN network is inadequate.

Important: Please note that – in contrast to Star Diagnosis – you require two LAN sockets and two LAN cables of corresponding lengths per workstation to operate the devices in this mode. If you only have one LAN socket per workstation, we recommend the use of a commercially available LAN hub/splitter.

3.2.1 Service24h

XENTRY Kit can be connected directly via LAN or WLAN using the Service24h mode. This may e.g. be useful during use on the road or outside on your company‘s forecourt.

Note: You are not connected to the workshop network in the Service24h network profile, i.e. you have no backend connection (e.g. to central servers for XENTRY Flash).

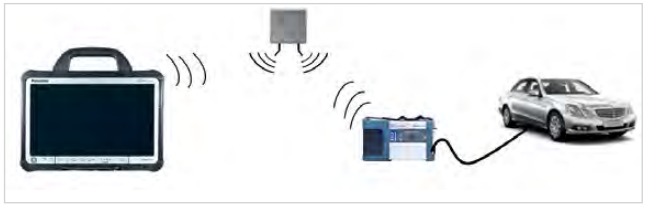
- **Service24h WLAN mode:** Direct wireless connection between a XENTRY Tab and a XENTRY Connect without Access Point as a base station.

- **Service24h LAN mode:** The devices are connected via Service24h mode with a direct cable connection between the XENTRY Connect and XENTRY Tab.

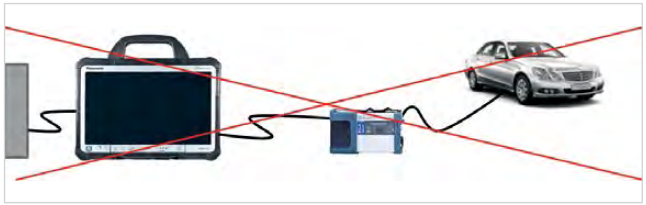
3.2.2 Mixed Operation

- **WLAN and LAN combined**

Workshop mode in mixed operation: E.g. XENTRY Connect in the WLAN, XENTRY Tab in the LAN. Devices are linked to each other via the workshop network and are connected to the back-end systems.



The following connection logic is not possible:



The “serial connection“ familiar from Star Diagnosis systems, i.e. the connection of XENTRY Connect and XENTRY Tab to the workshop infrastructure via LAN and connection of the XENTRY Tab via LAN, is not possible.

3.3 Minimum Technical Requirements and Restrictions on Use of a Standard PC

A standard PC may be used as an operating and display unit instead of the XENTRY Tab. You are entirely at liberty to choose the PC manufacturer and model, but must observe certain minimum requirements.

Minimum requirements:

Operating system:	Windows 7 (recommendation: Professional 32-bit)
Processor:	1.1 GHz Dualcore
Hard disk:	At least 30 GB available
Working memory:	2 GB
USB interfaces:	At least 2 x USB 2.0 (for external BD drive) or integrated DVD drive
Network:	LAN or WLAN
Display:	Recommended minimum size: 13.3“ Recommended minimum resolution: 1366*768 pixels
Virus scanner:	Recommended
.net Framework version:	4.0

Restrictions on use of a standard PC:

- No HMS Measurement Technology, no chip card reader and no multi-brand diagnosis can be used; product support is also limited.

- If you set up the standard PC with 64 bits, printing from the diagnostic software is difficult and only possible using work-arounds (creation of a PDF which is stored on the standard PC, then printing this PDF out). On use of 32-bit systems, printing is carried out directly..

- All Windows updates must be installed independently and as soon as possible (automatically is best) on the standard PC.

4 Initial Startup & Configuration

Certain steps have to be run through on initial startup of the XENTRY Kit.
The initial startup help card is also enclosed in the case as brief instructions.

4.1 Brief Overview of Initial XENTRY System Startup

- Unpacking the devices: Remove the XENTRY Tab and the XENTRY Connect from the case.
  We recommend fully charging the rechargeable batteries in the XENTRY Tab and the XENTRY Connect once prior to initial startup. To do this, connect the enclosed power supply units to the relevant device.
  Initial startup can be started whilst both devices are still charging. However, make sure that the power supply is not interrupted at any time.

- Setup of Windows 7 on the XENTRY Tab

- Installation of the required software on the XENTRY Tab (XENTRY Control software update DVD)

- Configuration of the XENTRY Tab and the XENTRY Connect for your workshop network using the XENTRY Control software. The ConfigAssist integrated there guides you step by step through the process.

- Ordering and installation of a StartKey so that you can use the XENTRY Diagnostics/XENTRY DAS diagnostic software.

Note: WIS/ASRA is only available via the central installations in on-line mode. This also ensures that you enjoy all of the advantages of online operation on the diagnostic systems, such as e.g. the latest documents at all times.
Of course, WIS/ASRA can also be opened from the XENTRY frame as before, so that transfer of the vehicle context is always guaranteed.
If access to a central installation is not possible or out of the question, WIS/ASRA may also be ordered as a WIS/ASRA standalone (i.e. offline incl. update supply via DVD) in exceptional cases. However, ordering is only possible by specifying a corresponding reason. In this variant, the WIS/ASRA data are also only updated every two months as part of the diagnostic updates. Obtain information on this from your responsible contact person within the market.

4.2 Initial Startup of XENTRY Tab

Initial startup of the XENTRY Tab consists of two steps: Windows 7 setup and installation of the XENTRY Control software DVD for XENTRY Tab/standard PC.
If you use a standard PC on which Windows 7 is already installed instead of the XENTRY Tab, you can start directly with the second step. See the chapter entitled “Installation of XENTRY Control Software“.

4.2.1 Windows 7 (32-bit) Installation

You will be requested to set Windows 7 up when initially booting the XENTRY Tab.
It takes approx. 45 minutes to set up Windows.
Fundamental information such as your language, country, keyboard layout, time zone, etc. has to be input.
Please follow the dialogs on the screen.

Note: Note: If the startup process cannot be carried out using the touchscreen, use the function buttons on the Tab (these are explained in the following) or connect a mouse or a keyboard.

= confirm / OK

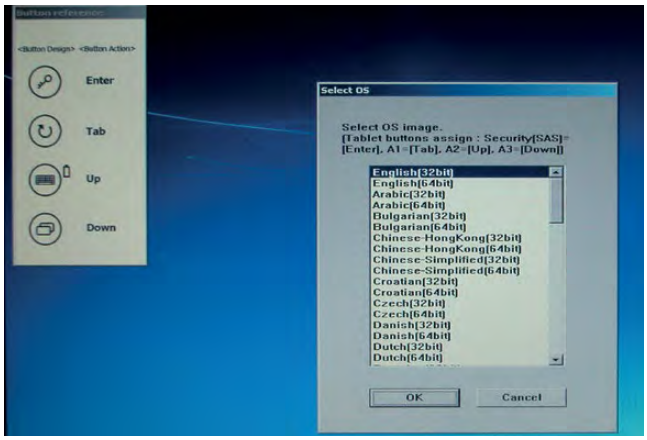
= continue

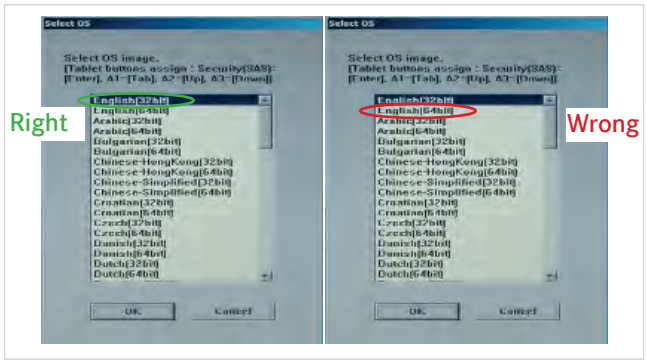
= up

= down

The language and bit version for Windows 7 initially have to be defined:

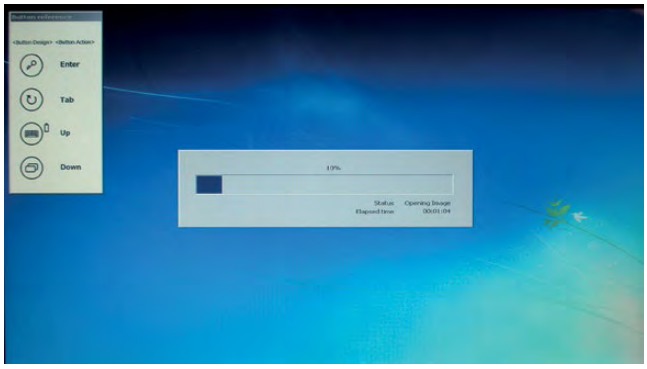
IMPORTANT: Select a 32-bit language for the XENTRY Tab! 64 bits are not supported and the XENTRY Measurement Technology software cannot be executed.
After startup, this can be checked under:
Start - > Computer -> right mouse button -> Properties.



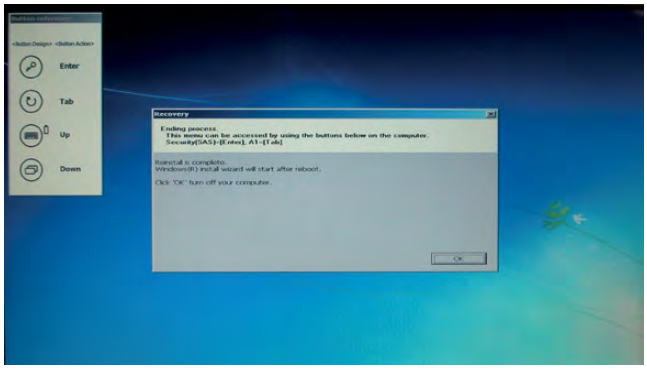


The installation process starts after selecting the language and bit version; this may take approx. 15 minutes.

Installation then starts; it is displayed in a progress bar:



A message to restart the XENTRY Tab then appears; confirm this message with“OK“.

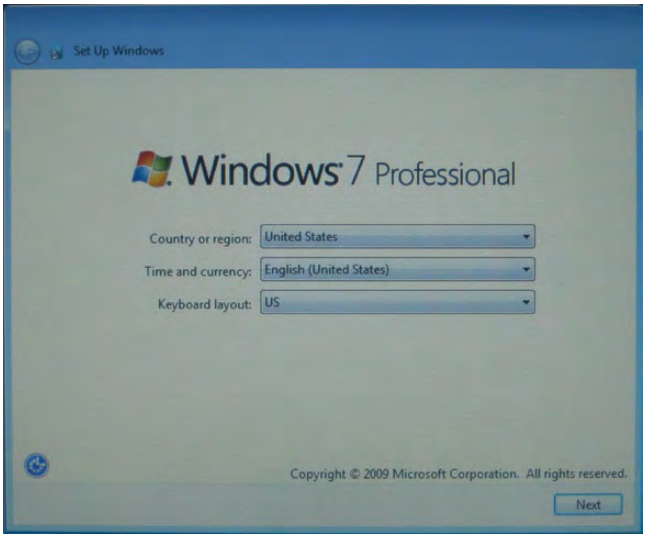


The XENTRY Tab will then turn itself off.

Press the power button
(hold for > 1 second) to start
the device and continue installation.

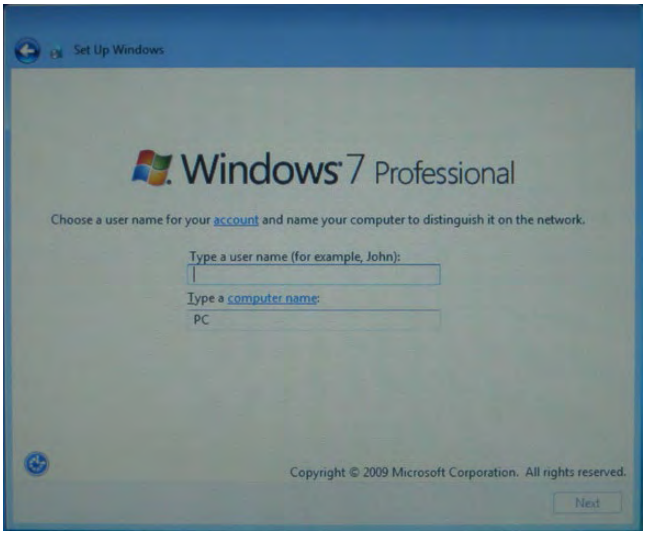
Follow the Windows 7 dialogs displayed on the screen again:

Specify your country/region, time, currency and keyboard layout in Windows 7.

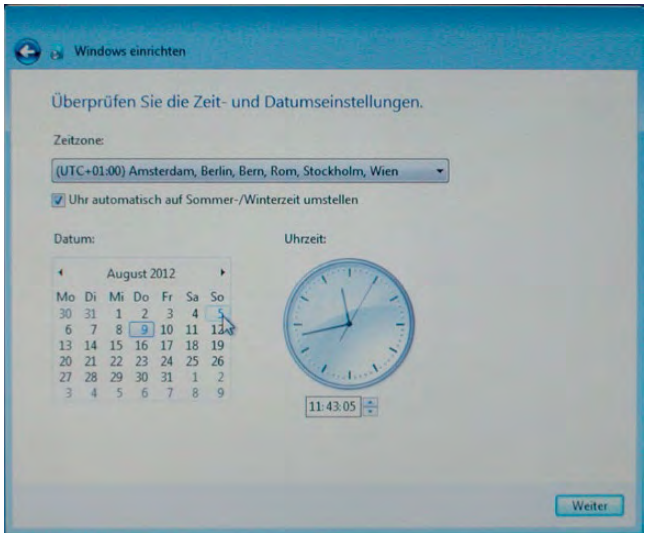


Now enter a user and computer name (the name is freely selectable, e.g.: XENTRYTab1).

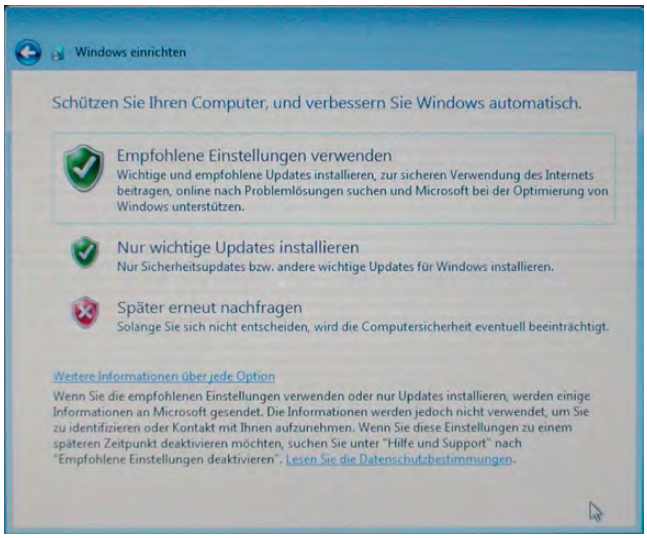
Remember that the computer name specified here will subsequently appear in your workshop network and is suggested for selection in the ConfigAssist:



Specify time zone, date, and time:



Inputting an admin user and admin password is not vitally necessary; this is specific to the individual workshop, e.g. to restrict rights or have administration undertaken by one responsible person only.



Select the recommended settings.
After all the settings have been made, XENTRY Tab will be automatically restarted several times.

Note: On initially logging into Windows 7, the created user has admin rights; this means that he has additional rights for blocking and releasing functions, creating further accounts, etc.

4.2.2 Installation of the XENTRY Control Software Update DVD for XENTRY Tab/Standard PC

After installation has been completed, the software on the enclosed “XENTRY Control software update DVD for XENTRY Tab / standard PC“ must be installed on the XENTRY Tab. To do this, connect the Blu-ray drive to the XENTRY Tab using both USB connectors and insert the XENTRY Tab/standard PC update DVD into the drive.
The DVD will start automatically.

The following software is installed on the XENTRY Tab by the XENTRY Control software update DVD for XENTRY Tab/standard PC:

- XENTRY Control
- Virus scanner
- XENTRY HMS 990 USB Measurement Technology software
- Support Tool
- UpdateAssist

Please follow the instructions for installing the software (conducted with operator prompting). Confirm all dialogs and accept the suggested settings.

The first installation step is the following window. The window appears automatically after connecting the BD drive to the XENTRY Tab. If it does not appear automatically, open the DVD manually using Computer - Removable Media:

Click onto “Start“.

The installation wizard is started.
Please note that Windows 7 security messages may appear in the background; these have to be confirmed.
After confirming the security message, the installation wizard may possibly be minimized; in this case, click onto the installation wizard icon at the bottom in the XENTRY Tab taskbar.

Installation of the Daimler software takes approx. one hour.
Please restart the XENTRY Tab after installation has been completed.

After restarting the XENTRY Tab, the virus scanner has to be configured; please follow the displayed dialogs.
Installation is then completed and the XENTRY Tab is restarted. The following desktop background with new links can now be seen on the XENTRY Tab.

Figure 3: XENTRY Tab desktop after installing the Daimler software

Initial startup of the XENTRY Tab is now finished.
The configuration of the XENTRY Tab for the workshop network will be explained in the next section along with the XENTRY Connect.

4.3 Initial Startup & Configuration of the Overall System

Switch on both the XENTRY Connect and the XENTRY Tab.
Connect both devices using the enclosed black Ethernet connecting cable and make sure that the devices are connected to the external power supply.
Both devices must be set to Service24h mode for configuration. Network profile changeover for the XENTRY Tab is carried out in XENTRY Control using the menu -> Network profile -> Service24h.

Network profile changeover in XENTRY Control is carried out using the menu -> “Network profile“ -> Service24h.
For XENTRY Connect, directly on the device using the gear button -> navigate to the “End workshop mode“ message and confirm it; the XENTRY Connect switches over automatically.

Wait until the flashing gears appear on the XENTRY Connect display and the connection via the Ethernet connecting cable has been detected (this may take a few minutes and is indicated by a cable icon on the display).

4.3.1 Configuration (Dialog-guided)

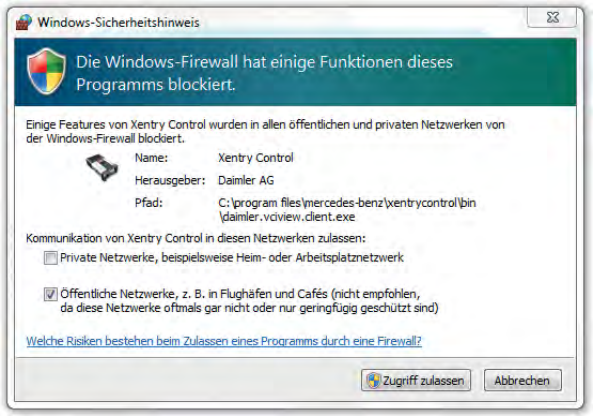
Start XENTRY Control using the desktop link

on your XENTRY Tab.

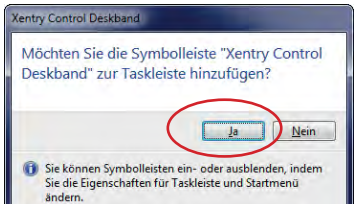
On initial starting, the following messages have to be confirmed.

Note: The following messages only appear in minimized form in the taskbar and flash. Click onto the flashing messages; they are then opened and can be confirmed.

- Firewall: Zugriff zulassen



- Add deskband: yes



ConfigAssist opens automatically after starting XENTRY Control; if not, it can be called using the “Configuration“ menu. Please follow the dialogs on the screen.

The first dialog offers you three selection options for accessing configuration:
1.) New, without existing configuration data
2.) Based on an existing configuration file
3.) Based on this XENTRY Tab / standard PC

Please click onto the appropriate option. If you do not have any information on this, select the option “New, without existing configuration data“ in the first ConfigAssist dialog.

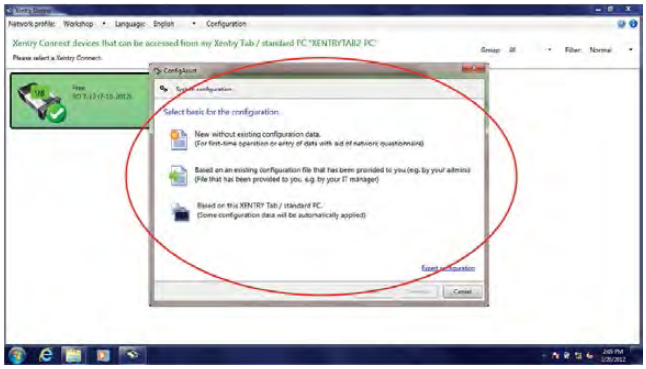
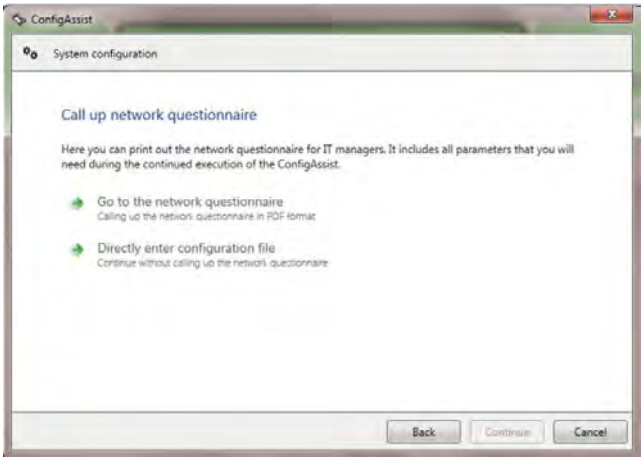


Figure 4: Start screen for configuration with ConfigAssist

The following screen will appear after you have selected the configuration type:



Here, you can call and print out the network questionnaire. All important data on the workshop network, e.g. network name and key, proxy settings, etc. can be documented on the network questionnaire in advance.
Open the network questionnaire, print it out and add the necessary information. If necessary, ask your workshop‘s IT manager about this.
Then continue to follow the dialogs in ConfigAssist to configure both devices. The network questionnaire data are queried step by step. On completion of configuration, the XENTRY Connect display shows the message “Configuration successfully applied“. The configuration wizard can be ended and the connection between the two devices separated. To do this, simply disconnect the black Ethernet connecting cable from both devices.

Then restart both devices and wait until both have completely booted.
Check then if the “Ready“ symbol is shown in the display of the XENTRY Connect and if the XENTRY Connect is shown in green after the XENTRY Control software has been started:

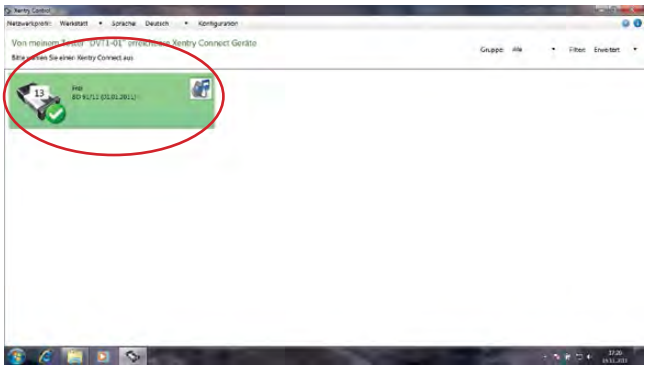
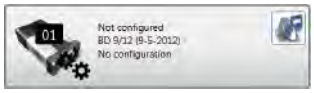


Figure 5: XENTRY Control selection screen

If yes, you may now use the XENTRY Connect to work on the vehicle together with the XENTRY Tab. To do this, click onto the green XENTRY Connect icon to connect to it.

If no, two options are available.

a) The XENTRY Connect icon is shown in gray in XENTRY Control and the gears flash on the display:



In this case, repeat configuration, then follow these instructions. Note that ConfigAssist is now no longer started automatically. Open ConfigAssist using the menu bar in XENTRY Control in the “Configuration“ menu item.
Please contact support if the next attempt also fails.

b) The XENTRY Connect no longer appears in the overview:

IIn this case, check whether both devices are set to the same network profile: workshop or Service24h mode. This can be checked in XENTRY Control using the menu -> “Network profile“ -> Service24h and using the gear button on the XENTRY Connect.
If the XENTRY Connect is still not displayed, the XENTRY Connect and the XENTRY Tab must be connected directly using the Ethernet connecting cable prior to reattempting configuration, and Service24h mode must be set in each case.
Only then is it possible to perform configuration again using ConfigAssist.

Note: After removing the black Ethernet connecting cable, the devices are only connected if the WLAN is activated and configured, i.e. if WLAN configuration has been executed in ConfigAssist.

Please contact support if the next attempt also fails.

4.3.2 Expert mode initial startup

In contrast to the procedures described above, this initial startup procedure is not guided and you must enter the required data yourself.
We only recommend using this procedure if you have extensive technical knowledge and have already configured such devices in the past.
Keep your workshop-specific network data ready, e.g. the IP address, network name and key, as these are required to fill in the screen.
This section only explains the differences between expert configuration and initial startup using ConfigAssist.
The expert dialog is also called using the “Configuration“ menu item in the XENTRY Control software.
Then click onto the blue “Expert configuration“ link at the bottom right in ConfigAssist:

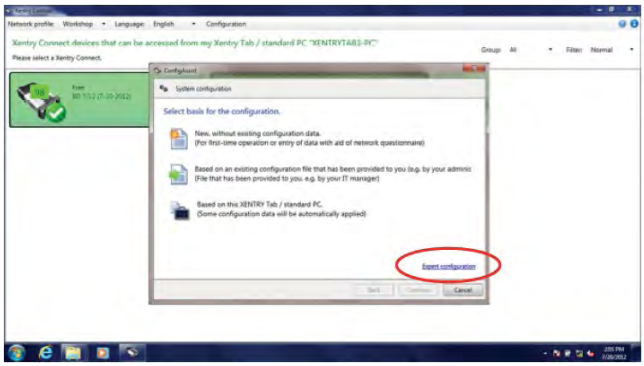
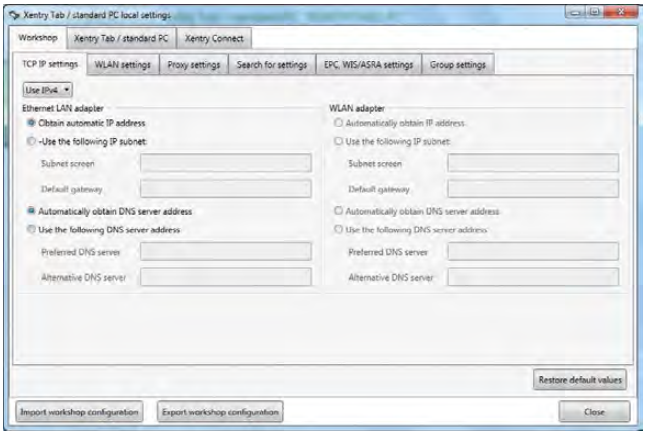


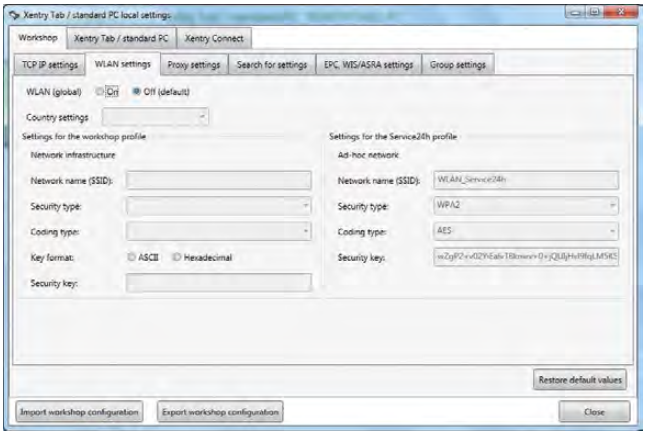
Figure 6: Accessing configuration with the expert dialog

The following window will open:



The expert dialog is subdivided into the 3 “Workshop“, “XENTRY Tab/standard PC“ and “XENTRY Connect“ tabs.

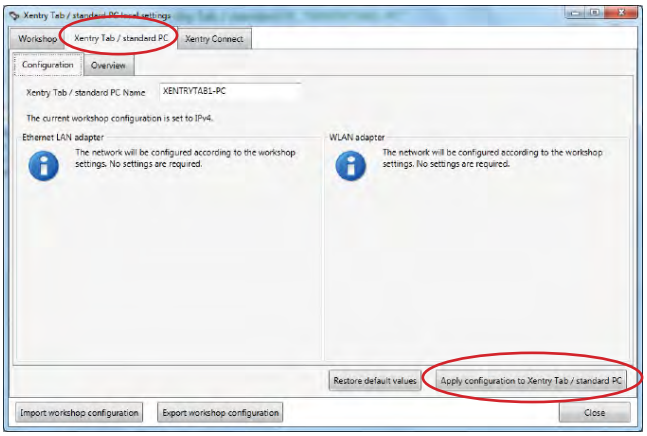
First switch to the “Workshop“ tab at the top and then to the “WLAN settings“ panel.



Fill in the fields required for your workshop.

- Enter the individual values for your workshop in the proxy settings, search for settings, EPC, WIS/ASRA settings and group settings tabs. If you would like to use groups, these must be created in the group tab so that they can be subsequently assigned to the XENTRY Connect.

Now switch to the “XENTRY Tab / standard PC“ tab:

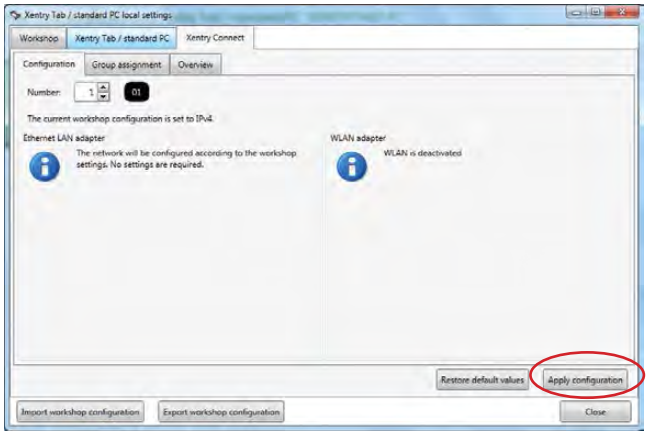


Fill in the following fields in the “XENTRY Tab / standard PC“ tab:

- The name of the XENTRY Tab must be entered (without blanks) in the “Configuration“ tab
- An overview of the input data is displayed in the “Overview“ tab
- Finally, press the “Apply configuration to XENTRY Tab / standard PC“ button

The message “Please wait whilst the configuration is applied to the tester“ appears.
The message “Configuration successfully applied“ appears after a while.

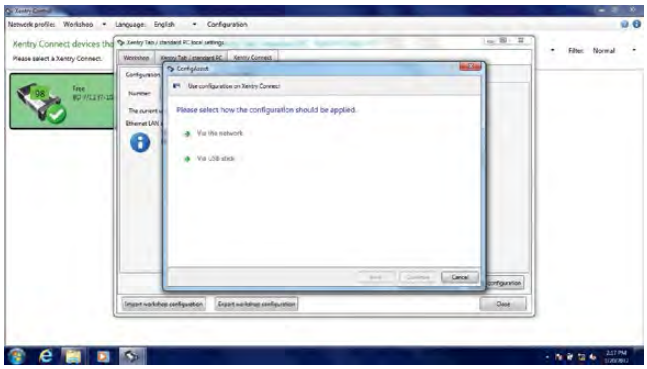
Now switch to the “XENTRY Connect“ tab:



Please enter the desired number of the XENTRY Connect in the “Configuration“ tab.
Important: Each number may only be assigned once in your workshop!

- The groups previously defined for your workshop operation in the “Workshop – groups“ tabs can be assigned to the XENTRY Connect in the “Group assignment“ tab. A list containing the defined groups appears. This may be helpful if you use a number of XENTRY Connect devices in your company or the company is subdivided into different teams. The definition of groups offers a more clearly arranged display in XENTRY Control.
- An overview of the input data is displayed in the “Overview“ tab
- Finally, press the “Apply configuration“ button.

The following dialog will appear:



Here, you may select whether you want to carry configuration out “Via the network“ (using the Ethernet connecting cable) or “Via USB stick“.

“Via the network“ means that configuration is carried out using the Ethernet connecting cable via which the XENTRY Tab is connected to the XENTRY Connect.

“Via USB stick“ means that configuration is carried out by saving the configuration file to a USB stick, which has to be inserted into the XENTRY Connect.

If you select “Via the network“, the message “Please connect the XENTRY Tab to the XENTRY Connect using the Ethernet connecting cable“ appears after clicking onto “Continue“. Check whether both devices are correctly connected via the Ethernet connecting cable.
The message “Configuration successful“ appears after a while. You are now finished configuring the XENTRY Connect. Then restart both devices and wait until both have completely booted.
Check then if the “Ready“ symbol is shown in the display of the XENTRY Connect and if the XENTRY Connect is shown in green after the XENTRY Control software has been started:

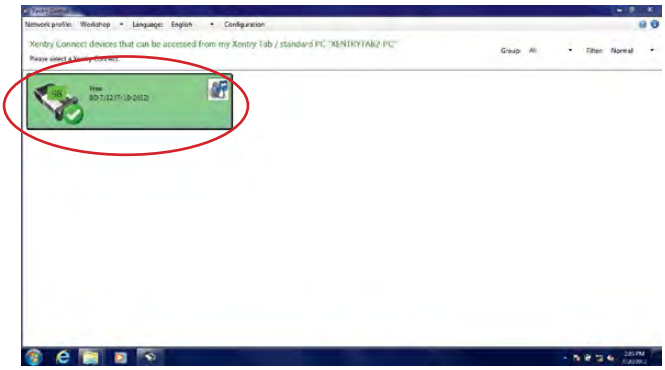


Figure 7: XENTRY Control selection screen

If yes, you may now use the XENTRY Connect to work on the vehicle together with the XENTRY Tab. To do this, click onto the green XENTRY Connect icon to connect to it.

If no, two options are available.

Note: If the XENTRY Connect is shown in gray with gears, configuration was unsuccessful; in this case, please repeat configuration or contact support.

a) The XENTRY Connect icon is shown in gray in XENTRY Control and the gears flash on the display:

In this case, repeat configuration, then follow these instructions.

Please contact support if the next attempt also fails.

b) The XENTRY Connect no longer appears in the overview:
In this case, please check whether the same network profile is set on both devices. If this does not remedy the problem, the XENTRY Connect and the XENTRY Tab must be connected directly using the Ethernet connecting cable prior to reattempting configuration, and Service24h mode must be set in each case.
This is carried out in XENTRY Control using the menu -> “Network profile“ -> Service24h.
On the XENTRY Connect, it is carried out using the gear button , which is pressed until the message “Switch to 24h mode?“ appears on the display. Confirm this message with the green tick.
Only then is it possible to perform configuration again using ConfigAssist.

Please contact support if the next attempt also fails..

4.4 Checking the Back-end Connections

Whether the back-end connections (i.e. WIS, EPC, TIPS, VeDoc, XSF, LogCollect/AQUA, XENTRY Flash Server) or Internet connections are functioning correctly can be seen at the bottom of the deskband when you are connected to your XENTRY Connect.

Figure 8: Deskband

IA globe with a green tick, indicating that all back-end connections are accessible, appears in the deskband:

If no back-end connection is available, the following icon will appear in the deskband:

If no back-end connection is available, the following icon will appear in the deskband:

In this case, please check whether the device is correctly configured for your workshop and whether you are able to establish an Internet connection at all. To test this, you can open the XENTRY browser and e.g. call the After Sales Portal under favorites. If the homepage appears, you may assume that the Internet connection is functioning correctly.
If no Internet connection is available, please check whether the devices have been correctly configured for your workshop. The data which you have input can be checked by calling the menu in XENTRY Control: Configuration -> Check expert dialog.
One further reason may be that the XENTRY Connect and/or XENTRY Tab have not been enabled for your workshop network. In this case, ask your IT manager / workshop network service provider.

4.5 Ordering StartKeys

On completion of configuration, you must order the necessary StartKeys to be able to use the XENTRY system. The StartKey enables you to use the XENTRY Diagnostics and XENTRY DAS diagnostic applications. You also require a StartKey to use WIS standalone. Please note that the use of WIS standalone is only now approved in exceptional cases. Make sure that an Internet connection is available and carry out the following steps:

1. Start the StartKey Center using the button on the diagnosis desktop

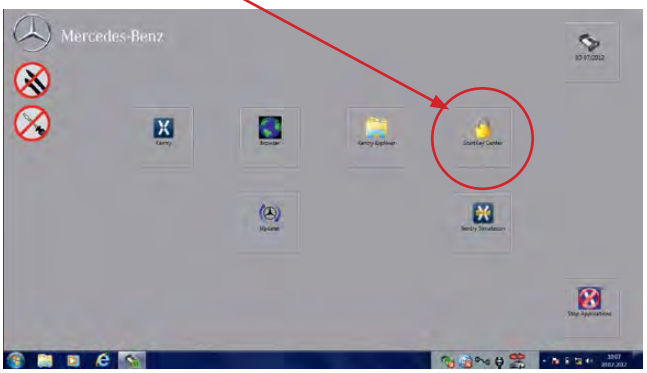


Figure 9: Diagnosis desktop on the XENTRY Connect

2. Read out the HW ID and the system number of your XENTRY Connect in the “Overview“ tab.
   You require this information to order the StartKey.

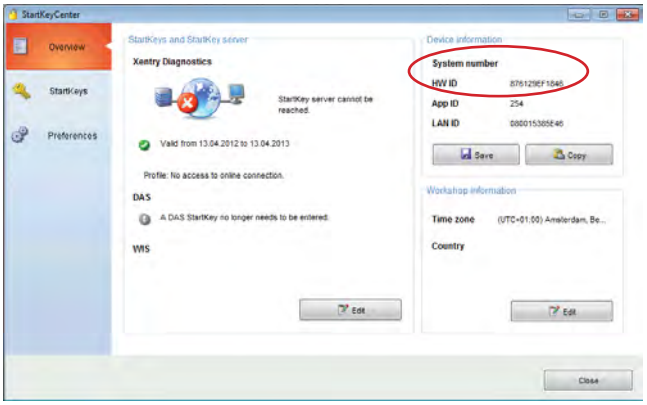


Figure 10: StartKey Center overview

3. We would like to point out our electronic ordering options (LOP, LOT) to apply for permanent access authorization (StartKey). Information on which ordering process is used in your country (LOP, LOT or ordering through a central national contact person), is available from the contact person for access authorization/StartKeys at your national company.

4. The StartKey is sent to you at the e-mail address which you have specified. The StartKey may also be loaded online in the StartKey Center
   a) You can save the attached file to a USB stick, insert this into the XENTRY Connect and read out the StartKey from the USB stick in the StartKey Center.
   b) You can open the StartKey Center and press the “Load StartKey online“ button. The StartKey is then read-in directly online. For this variant, you must make sure that the XENTRY Connect has an Internet connection.

5. You can select the desired application for which the StartKey applies in the “StartKeys“ tab and load or enter the StartKey.

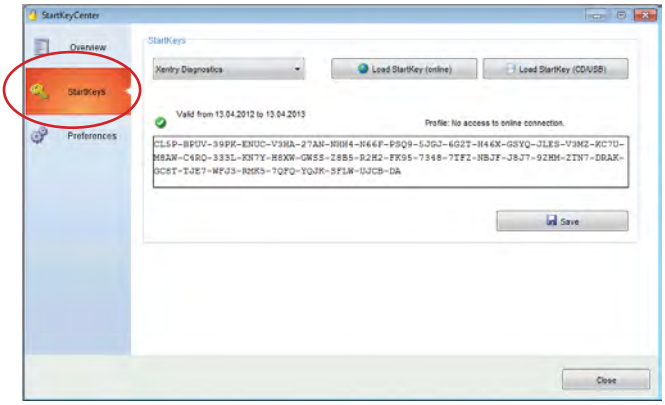


Figure 11: Screen for inputting StartKeys

6. Then please specify your time zone in the “Preferences“ tab.

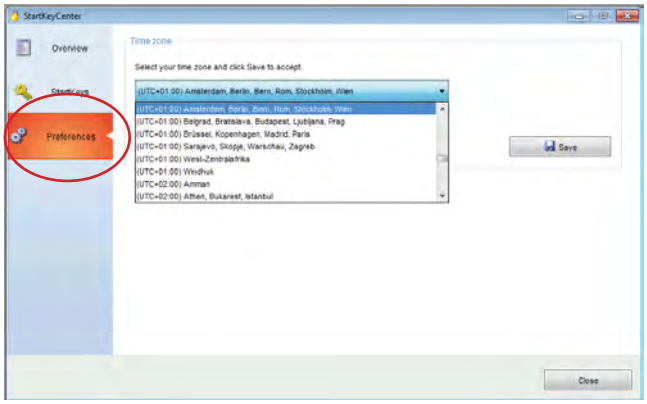


Figure 12: Preferences screen in the StartKey Center

You may now start XENTRY Diagnostics.

5 XENTRY Connect

As the successor to SDconnect, the XENTRY Connect offers an autonomous PC core in addition to the multiplexer properties.

Figure 13: XENTRY Connect

The following points provide a brief overview of the properties and performance features of the XENTRY Connect:

- The core element is a PC with an SSD as a robust storage medium on which the diagnostic programs are executed.
- The power supply for the XENTRY Connect occurs
  - directly through the vehicle's diagnostic socket (OBD)
  - via the battery in the absence of an on-vehicle supply
  - with the aid of an external power supply unit included on delivery
- The connection with the XENTRY Tab is
  - wireless: via WLAN; a WLAN module is installed
  - cable-based: using the enclosed Ethernet connecting cable

5.1 Technical Performance Features

Operating system	Windows Embedded Standard 7 (32-bit)
Processor	B810 CPU (Core2Duo 2nd gen, 2x 1.6Ghz
Working memory	4 GB
Data memory	256 GB SSD
Display size	128x64 px
Rechargeable battery operating time	40 minutes at 60% CPU load
USB interfaces	2 x USB 2.0
Weight (incl. rechargeable battery)	1,9 kg
Protection class	IP 54
Other interfaces	WLAN interface
Warranty	3.5 years (rechargeable battery warranty: 6 months)
No. of rechargeable batteries	1
WLAN standard	IEEE 802.11 a/b/g/n 2.4 + 5 GHz
Certification	CE, UL, GOST-R, KCC, FCC, VCCI, WLAN

The WLAN country list for the XENTRY Connect can be found in the Annex under "Certification". The XENTRY Connect is supplied with the WLAN module deactivated in all non-certified countries. When operated in these countries, we recommend the use of a "micro stick" to nevertheless enable you to workin the WLAN.

5.2 Interfaces on the XENTRY Connect

Figure 14: Connection options on XENTRY Connect

Note: Please make sure that the fan at the rear of the XENTRY Connect is always free and that the XENTRY Connect is not positioned lying on its fan in the vehicle.

5.2.1 Socket for the XENTRY Connect Power Supply Unit

Used for the operation of a XENTRY Connect device via the mains supply if it is not connected to a vehicle with the round plug and not supplied by the vehicle battery. Only the power supply unit included on delivery may be used.

5.2.2 USB Connections

The USB sockets are used to connect the Blu-ray drive from MoTeIDis or from the RS232 adapter to use the SBC flash box, for USB sticks or other USB 2.0 devices approved by Daimler AG. The power supply delivers max. 500 mA.
The connection of a keyboard or a mouse is not supported.

5.2.3 Connecting XENTRY Connect to the Vehicle (Vehicle Cable)

A XENTRY Connect device can be connected to the vehicle using various vehicle-specific connecting cables. The cables are compatible with the current vehicle cables and are connected to the XENTRY Connect using a so-called push-pull mechanism.

Note: Please note that the XENTRY Connect must always be supplied with sufficient power when used in the vehicle. When working on the vehicle, always connect an external power supply to the vehicle (> 12V).

5.3 XENTRY Connect Operating Panel

As is already familiar from SDconnect, the XENTRY Connect offers a display and four buttons for operation.
Two green and two red LEDs for indicating the current operating status are new.

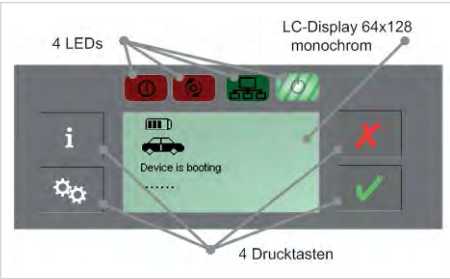


Figure 15: LEDs, display and buttons

5.3.1 Button Lock on the XENTRY Connect

The XENTRY Connect is equipped with a button lock so that it cannot be switched on unintentionally during transport or daily operations.
If you wish to switch the XENTRY Connect on, press any button on the operating panel.
The prompt “Start XENTRY Connect?“ then appears on the display. Confirm this by pressing the green tick on the operating panel.
The XENTRY Connect starts after pressing the green tick.

5.3.2 LEDs and Search Tone

To indicate different status and event information, the XENTRY Connect is equipped with two green and two red LEDs as well as an acoustic search tone.
If the search tone is activated, all LEDs flash simultaneously for the defined time period of 10 seconds and a signal tone is sounded on the device at the same time.

1 = Malfunction LED (red) 3 = Network LED (green)
2 = Occupied LED (red) 4 = Power LED (green)

Depending on status (off, on, flashing), the LEDs have different meanings; these are described in detail in the following.

Malfunction LED (red)

	Off	No fault found
	On	Device fault found on the XENTRY Connect
	Flashing	XENTRY Connect rechargeable battery almost empty

Occupied LED (red)

	Off	XENTRY Connect is unused and can be used
	On	XENTRY Connect is in use and cannot be used (XENTRY Tab is connected or an autonomous process such as an update is running)
	Flashing	The XENTRY Connect is blocked by a XENTRY Tab that is not currently connected.

Network LED (green)

	On	No network connection available
	Off	Network connection established
	Flashing	Establishing network connection

Power LED (green)

	On	XENTRY Connect is switched off
	Off	XENTRY Connect is operational
	Flashing	XENTRY Connect is booting or has not yet been configured

Acoustic signal

Depending on the status of the device, the search tone provides an acoustic signal which differs in terms of length and repetition frequency. There are several statuses which are indicated:

Status	Sound
Booting process/switched on	1 short
External power supply no longer available	1 short
Switch to power supply	1 short
Rechargeable battery almost empty	3 short
“Key Finder“ activated	3 long
Configuration failed	3 short
Successful configuration	1 short
Network profile change successful	1 short
Network profile change failed	3 short

5.3.3 Display

The display is used to show all information that is relevant to the user.
The display is divided in an upper and lower section.

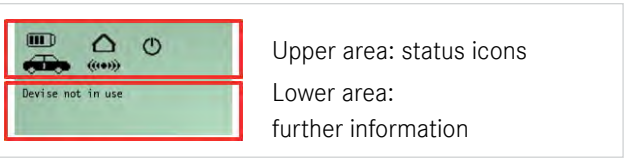


Figure 16: XENTRY Connect display

a) The upper half of the display serves to show status icons. These are displayed permanently and updated as required. They indicate the battery condition, type of connection, and the operating state of the device.
b) The lower area is used for messages regarding the properties, name and statuses of the device and its connections as well as information to explain and operate the available options.

5.3.4 Upper Area of the XENTRY Connect Display

Battery icon

The number of bars (zero to four) in the battery can be used to determine the charge level of the rechargeable battery.
A vehicle or connector shown underneath indicates that there is a connection to the vehicle or another external power supply, and that the rechargeable batteries are charging.
If there is no external power supply, however, the duration in minutes until the XENTRY Connect automatically switches to standby is located beneath the battery icon.

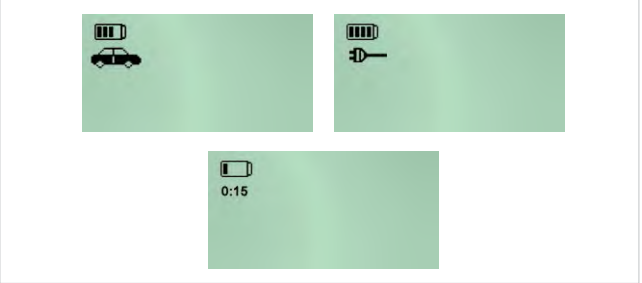


Figure 17: XENTRY Connect rechargeable battery statuses

Connection icon: connection status and quality

The house display and the 24h icon clearly indicate which network profile is active.

The house symbolizes the workshop network.
The 24h icon shows that the devices are directly connected, e.g. for breakdown assistance.
If a cable is displayed beneath, this means that the connection has been established using a cable.
If the WLAN icon is displayed, this means that the connection is wireless.

Figure 18: XENTRY Connect network profile statuses

These symbols indicate the type and quality of connection.

⌂	stands for the workshop network profile (connection via a network)
24h	stands for the Service24h network profile (direct connection without network, similar to the current on-road mode)
	stands for a cable connection (to the XENTRY Tab or the workshop network)
	stands for a WLAN connection: the number of radio waves (one to four) shown in the relevant icon represents the signal strength of the WLAN signal.

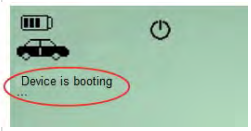
Operational status: Working status

The icons in the upper area of the display indicate whether a XENTRY Connect is available or has already been occupied by another XENTRY Tab, or whether a defect is present.

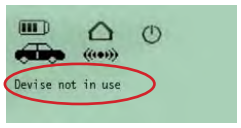
	The XENTRY Connect is ready (the icon flashes whilst the device is starting)
	Device is occupied and currently operating.
	Initial startup (icon flashes if the device is not configured
	Defect/malfunction

5.3.5 Lower Area of the XENTRY Connect Display

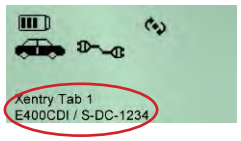
Examples:



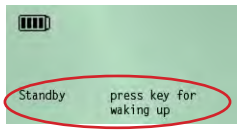
The “Device is booting“ message appears during the booting process. The dotted line beneath the text is animated.



If a power supply is connected but no application is active, the message “Device not in use“ appears.



If a power supply is connected and an application is active, a message generated by the application will be displayed. If the device is connected to a XENTRY Tab, the name of the connected XENTRY Tab is shown above the name of the application (in the example, “XENTRY Tab 1“).



The device is not in use and is set to standby.

5.3.6 Background Illumination Statuses

The background illumination of the display has three operating states: ON, OFF and flashing.

- Background illumination ON indicates that the device has recently been activated or a button has recently been pressed.

- Background illumination OFF can be attributed to two causes:
  - If nothing is shown on the display at all any longer, the device has no power supply. The rechargeable battery is also empty or has been removed.
  - If messages or icons appear on the display
    (a) The XENTRY Connect is set to standby or
    (b) No XENTRY Connect buttons have been pressed within approx. 10 seconds or the information has not been updated/changed within approx. 10 seconds.

- Background illumination FLASHING indicates that the search tone is active.

5.3.7 Buttons on the XENTRY Connect

The XENTRY Connect offers the user the following four buttons to operate the display and a button combination to carry out updates.

Information button

This button guides you through an information menu and displays the following information in succession:

- Diagnosis update version: BD x/xx
- Vehicle battery voltage
- XENTRY Connect serial number
- Name of the connected XENTRY Tab
- Fault information
- Network information
  - WLAN: MAC, DHCP status
  - WLAN: IP, subnetz
  - WLAN: Gateway, status
  - WLAN: SSID, encryption
  - LAN: MAC, DHCP status
  - LAN: IP, subnet, gateway

Function button

This button can be used to access functions that are relevant to the current device status; other functions will not be offered (dynamic menu).

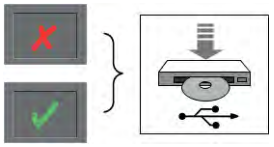
The following functions are available::

- Switch to (W)LAN mode
- Release device – after additional confirmation request
- Start network self-test
- Switch off device – after additional confirmation request

Back/cancel button

Back: press button < 2 seconds
Abort: press button > 2 seconds

Confirmation button Ok / yes



Key combination

When device is switched on → begin initial startup process with USB stick

When device is switched off → start update/recovery process

Depending on precondition, the back/cancel button and confirmation button combination (pressed for two seconds) triggers different actions:

- **When the device is switched on, the initial startup process starts:**
  When the device is switched on, pressing the cancel and confirmation buttons at the same time for two seconds starts the initial startup process. Details can be found in the chapter entitled “Initial Startup“.

- **When the device is switched off, update/recovery starts:**
  When the device is switched off, pressing the cancel and confirmation buttons at the same time for two seconds switches the device on and starts the update process. Details can be found in the chapter entitled “Update + Recovery“.

5.4 Starting and Shutting Down the XENTRY Connect

A XENTRY Connect is started by pressing its operating buttons or by connecting an external power supply.
The device is fully booted when the “Ready“ icon is continually shown on the display.
Shutting a XENTRY Connect down to standby is carried out using the operating menu function button. If a user is still connected to this XENTRY Connect at this point in time, this visual connection is ended in a controlled manner with a corresponding notice message.
If a XENTRY Connect is shut down unexpectedly, e.g. by a crash or due to the absence of a power supply, currently connected users receive an error message.

5.5 Battery Compartment

XENTRY Connect contains a rechargeable lithium-ion battery block. The battery has a rated voltage of 7.2 V and a maximum capacity of 4.5Ah.
The battery charge level is shown in the display of the XENTRY Connect or the XENTRY Tab/standard PC.

Note: Do not open the rechargeable battery compartment or exchange the rechargeable battery.
The exchange of the battery may only be realized by specifically trained personal.

6 XENTRY Tab

The following contains a brief overview of the XENTRY Tab.

The exhaustive instructions with more extensive information on the XENTRY Tab can be found in the manufacturer‘s manual on the XENTRY Tab desktop after setting up Windows 7. The instructions can be called using the “Reference Manual“ link.

6.1 Technical Performance Features

Processor	Intel Value CPU (Huron River Plattform)
Working memory	2 GB
Data memory	250 GB
Display size	13,3“ (293.42 mm * 164.97 mm)
Touchscreen	Resistiv
Rechargeable battery operating time	4h
No. of rechargeable batteries	1 lithium ion rechargeable battery
USB interfaces	3 Ports (USB 2.0)
Other interfaces	WLAN interface, LAN interface
Weight (incl. rechargeable battery)	2,2 kg
Protection class	IP67 (DIN EN 60529) / 91cm drop height
Warranty	3.5 years (rechargeable battery warranty: 3 years)
WLAN standard	IEEE 802.11 A/G/B/N
Certification	DIN / EC / EN / MIL-STD-810G

6.2 Interfaces XENTRY Tab

Side view (left):

- PC Card
- Express 54
- SIM Cardreader ID-000

- SCXC Cardreader
- Headphone jack
- Microphone port

- 3 x USB 2.0 with screwgate

Note: The WLAN can be switched on or off using an on/off switch at the XENTRY Tab‘s PC card slot.

Side view (right):

- Device fan
- Serial interface (not used)
- LAN interface RJ45 (10/100/1000 MBit) with screwgate
- Blind cover (not used)
- Power supply connection

Note: The SBC flash box is not connected using the serial interface on the XENTRY Tab but to the XENTRY Connect using an RS232 adapter.
All other peripheral devices, e.g. HMS Measurement Technology, are connected directly to the XENTRY Tab.

6.3 XENTRY Tab Function Buttons

1 Lock screen (corresponds to the button combination Ctrl+Alt+Del)
2 Change screen orientation
3 Show virtual keyboard (short) / check rechargeable battery status (long press, device off)
4 Switch between running applications on the XENTRY Tab
5 Call Panasonic Dashboard (short) / self-diagnosis (short when booting)
6 LEDs for: rechargeable battery status, WLAN readiness, hard disk activity and SD memory card activity
7 Power: switch on/off

6.4 Panasonic Dashboard

The Panasonic Dashboard can be used to carry out various settings for the XENTRY Tab.
It is called using the “gear“ button on the XENTRY Tab.
The “System“ and “Basic“ tabs can be used to undertake changes to the basic settings of the XENTRY Tab, e.g. standby times, volume and also touchscreen calibration.

Figure 19: Panasonic Dashboard on the XENTRY Tab

6.5 Virtual Keyboard

This is called by briefly pressing the keyboard button.

Note: The virtual keyboard is not adapted when changing the language using XENTRY Control. This has to be switched separately. When the virtual keyboard is shown, this can be carried out at the top in the keyboard menu. Alternatively, you have to disconnect from the XENTRY Connect and log in again so that the virtual keyboard is adapted.

Note: When inputting special characters with the virtual keyboard using a remote connection to the XENTRY Connect, these are not accepted. Please connect an external keyboard if you have to input special characters, e.g. when entering passwords, or use the “Alt Gr“ button.

6.6 Own Software on the XENTRY Tab

As the XENTRY Tab is an open system, you may install any software required for your work on it.
Please note that, in the event of recovery or on exchanging the device in the event of a fault, your personally installed software will be lost.
We therefore recommend that you back up the software and your own files and folders prior to recovery or device exchange.

6.7 XENTRY Tab Docking Station

A docking station may be ordered as an accessory for the XENTRY Tab. It offers further connections such as e.g. USB connections and an option for connecting a screen or beamer.

Figure 20: XENTRY Tab with docking station

Note: Please note that, if you operate the XENTRY Tab using a docking station, only the docking station‘s network connection is active; the connection on the XENTRY Tab cannot be used during this process.

6.8 Printers and Printing

Any commercially available Windows 7-capable printer may be installed on the XENTRY Tab. Each installed printer can be used from both the XENTRY Tab and the XENTRY Connect.
Printing out from the XENTRY Connect is carried out as normal by selecting a printer; the print jobs are automatically forwarded to the XENTRY Tab and from there to the relevant printer.

Example: Print out a quick test report in XENTRY Diagnostics -> click onto the print icon -> select the printer -> the document is printed on the printer We recommend always using the manufacturer‘s latest printer driver. Wherever possible, use the manufacturer‘s specific printer drivers and not those preinstalled under Windows 7.

Note: In XENTRY Diagnostics / DAS, printing is only possible using the printer which you have defined as the standard printer on the XENTRY Tab. As soon as you have opened XENTRY Diagnostics / DAS, the printer can no longer be changed; to do this, it is necessary to log off from and log back onto the XENTRY Connect.

6.9 Windows Settings

Note: The taskbar in Windows 7 may only be located at the bottom, as the Daimler software cannot otherwise be displayed correctly.

7 Connection of Accessories

The component to which the individual accessory has to be connected is described in the following chapter. Exhaustive instructions on operation of the accessories can be found in the relevant manual for the accessory devices.

7.1 XENTRY HMS 990 USB Measurement Technology

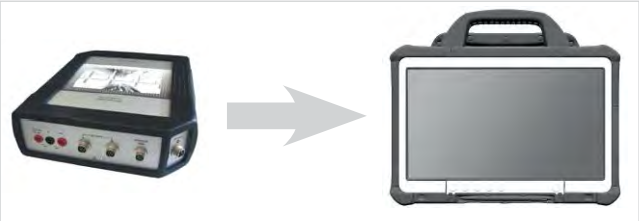


Figure 21: XENTRY HMS 990 USB Measurement Technology

The XENTRY Measurement Technology is connected to the XENTRY Tab via USB.
Note that it may only be used together with the XENTRY Tab and not with a standard PC.

The software for the XENTRY Measurement Technology is accordingly installed on the XENTRY Tab, but it may still be called directly from guided diagnosis.

The Measurement Technology has not been changed, i.e. it can still be used as before with both the XENTRY Tab and Star Diagnosis compact4.

Note: The XENTRY Measurement Technology can only be used with the XENTRY Tab.

7.2 SBC Flash Box

Figure 22: SBC flash box

The SBC flash box is connected to the XENTRY Connect using an RS232 USB adapter. Unfortunately, the serial interface on the XENTRY Tab cannot be used for this.

The SBC flash box has not been changed, i.e. it can still be used as before with both the XENTRY Tab and Star Diagnosis compact[4].

Note: Please order the RS232 USB adapter via accessories.

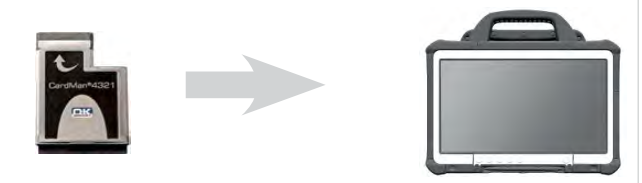
The SBC flash box can be used as usual.

7.3 MoTeIDis

Figure 23: MoTeIDis

MoTeIDis is connected directly to the XENTRY Connect via USB.
The MoTeIDis has not been changed, i.e. it can still be used as before with both the XENTRY Connect and Star Diagnosis compact[4].

7.4 Chip Card Reader



The chip card reader is connected to the XENTRY Tab via USB. The chip card reader is used for programming the maximum speed in commercial vehicles.
The chip card reader has not been changed, i.e. it can still be used as before with both the XENTRY Tab and Star Diagnosis compact[4].

8 XENTRY Control

The XENTRY Control software establishes the connection between the XENTRY Connect and XENTRY Tab. You always need a connection to the XENTRY Connect when you want to perform a diagnosis.

XENTRY Control consists of two components: one component runs on the XENTRY Tab and one on the XENTRY Connect. Both components must have the same software version in order to work together. Operation is always carried out via XENTRY Control on the XENTRY Tab.

On the XENTRY Tab, XENTRY Control offers the user a graphical user interface to initialize a connection to a XENTRY Connect and undertakes the following tasks:

- Configuration of the XENTRY Tab and XENTRY Connect
- Administration of several XENTRY Connect devices in the network
- Establishment and termination of a connection to the XENTRY Connect
- Provision of the XENTRY Connect interface/diagnosis desktop
- Changing the language of XENTRY Control and the XENTRY Connect plus all diagnostic applications on the XENTRY Connect
- Selection of network profiles: workshop or Service24h for the XENTRY Tab
- Searching for a XENTRY Connect by activating the search tone
- Support for new use cases such as e.g. diagnosis and control unit programming in the background, support (request help) from colleagues by connecting to a XENTRY Connect

8.1 Starting XENTRY Control

XENTRY Control is started using the desktop link on the XENTRY Tab:

If the XENTRY Tab has already been configured, the XENTRY Control selection screen is started. The available XENTRY Connect devices in the network are displayed here. If the XENTRY Tab has not been configured yet, the ConfigAssist is started automatically for step by step device configuration.

XENTRY Control can also be started using the following link:

If the XENTRY Tab has already been connected to a XENTRY Connect, a connection to the last XENTRY Connect is established directly using the “My XENTRY Connect“ link. If the XENTRY Connect is not available, the XENTRY Control selection screen is started.

8.2 XENTRY Control Selection Screen

The XENTRY Control selection screen shows the statuses of available XENTRY Connect devices in the workshop network. To do this, the devices have to be found. The prerequisite for this is that the devices are switched on and are connected to the workshop network or the XENTRY Tab.

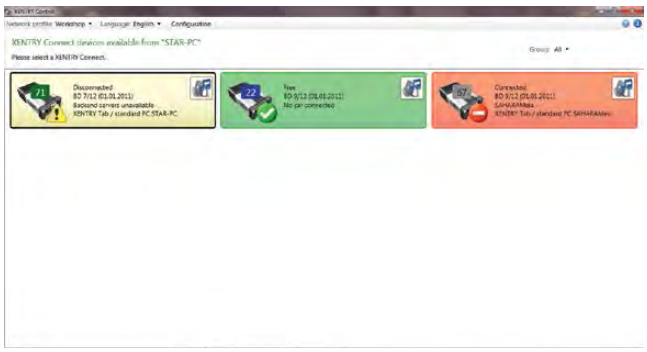


Figure 24: XENTRY Control selection screen

Note: The XENTRY Connect which was last connected is displayed with a black frame and is numerically sorted.

8.2.1 XENTRY Connect Statuses

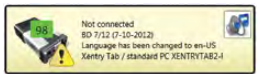
The XENTRY Connect devices are shown in various statuses, which show the user whether he can establish a connection.

Farben der Kacheln:

- Green XENTRY Connect is operational and free
- Yellow XENTRY Connect is disconnected or help has been requested
- Red XENTRY Connect is connected or undergoing configuration
- Grey XENTRY Connect is not configured or incompatible

The XENTRY Control selection screen displays the following statuses or tiles.

Green tile + tick = free:
The XENTRY Connect is configured and ready to operate; there are no connections to the XENTRY Connect



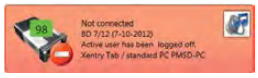
Yellow tile + exclamation mark = disconnected:
There is no visual connection to the XENTRY Connect at present. However, the last user has begun an exclusive session from this XENTRY Tab, to which only he can reconnect using the same XENTRY Tab.

Yellow tile + question mark = help requested:
A user who has requested help is connected to the XENTRY Connect

Gray tile + gears = not configured:
The XENTRY Connect has no valid configuration yet

Red tile + gears = undergoing configuration:
The XENTRY Connect is currently being configured.

Note: This tile also appears on changing network profiles (workshop – Service24h and vice versa)



Red tile + no entry icon = connected:
ein anderer Benutzer besitzt auf den XENTRY Connect eine aktive Sichtverbindung

Gray tile + question mark = incompatible:
This status is a special case. It occurs when the software version of the XENTRY Connect and XENTRY Tab are different (=incompatible). The XENTRY Connect cannot therefore be connected.
In this case, check the XENTRY Control software version on your XENTRY Tab (XENTRY Control – click onto in the top right menu line) and the version of the Blu-ray Disc (BD) installed on the XENTRY Connect (press the information button on the display). Carry out a current update if the versions differ.

8.2.2 Menu and Displays in the XENTRY Control Selection Screen

In the following example, the operating panels of the XENTRY Control selection screen are explained:

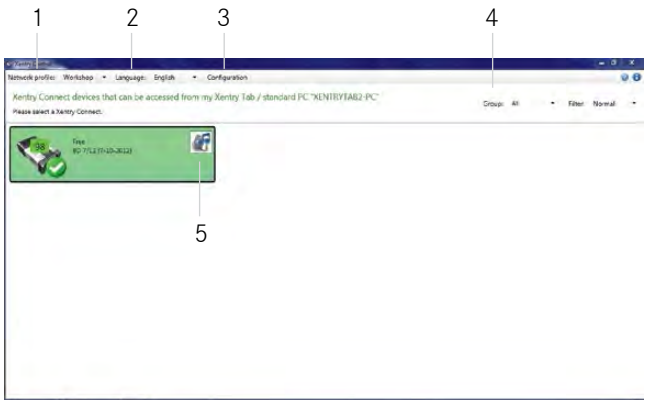


Figure 25: Selection screen in XENTRY Control

You can perform the following activities in the selection screen and the menu:

Menu:

1. Network profile: Here, you can switch between the “workshop“ and “Service24h“ network profiles. The XENTRY Tab is switched to a different network profile here.
2. Language: The language can be changed here. A selected XENTRY Connect automatically accepts this language if this is confirmed by the user when establishing the connection. After changing the language, a green tile appears again – the user then has to reconnect to the XENTRY Connect.

Note: Changing the system and the software language is now only possible at this point. The previous language changeover in XENTRY Diagnostics is therefore deactivated with immediate effect.

Note: If a language not supported by XENTRY Control is installed on your XENTRY Tab/standard PC, English is automatically selected as the language in XENTRY Control.

Note: Standard PC: Die Sprache von XENTRY Control richtet sicStandard PC: on the Standard PC, the XENTRY Control language is determined solely according to the language format stored in the operating system. I.e. the desired language has to be set in the operating system before initially starting XENTRY Control

3. Configuration: ConfigAssist is started. Details can be found in the chapter entitled “Initial Startup“.
4. Group: If the devices are defined in groups, the desired group can be set. This provides a better overview in large workshops with several XENTRY Connect devices. The group definition must be specified on initial startup/configuration; this is only possible using expert configuration (see the chapter on “Expert Mode Initial Startup“
5. Search tone: Clicking onto the “speaker“ icon triggers a search tone on the XENTRY Connect, and the LEDs flash; this enables the device to be located more easily in the workshop or a check to be carried out to ascertain whether it is accessible.

8.3 Working with XENTRY Control and XENTRY Connect

To start a diagnostic session, you always need to connect to the XENTRY Connect via the XENTRY Control software. As soon as a connection with a XENTRY Connect is established, the diagnosis desktop appears. The diagnosis desktop displays the XENTRY Connect user interface including all programs available there. The following figure shows the basic structure of the diagnosis desktop.

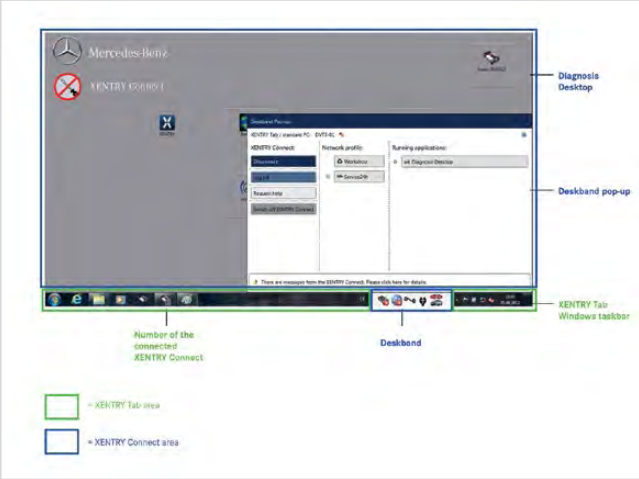


Figure 26: Diagnosis desktop on the XENTRY Connect

By clicking onto the XENTRY Connect shown at the bottom in the Windows taskbar (in the figure, “Number of the connected XENTRY Connect“), you can switch between the diagnosis desktop and the XENTRY Tab desktop. XENTRY Control is minimized or maximized by clicking onto the Windows taskbar icon. All areas with gray backgrounds, such as the diagnosis desktop and the deskband, belong to the XENTRY Connect. The individual components of the XENTRY Control user interface will be described in greater detail below.

8.3.1 Deskband

The deskband displays different statuses of the currently connected XENTRY Connect. As a result, it is only ever visible when you are connected to a XENTRY Connect. The deskband is always located at the bottom right edge of the screen in the XENTRY Tab taskbar:

Figure 27: Deskband

It contains the following information:

1. **XENTRY Connect and number:** this is the XENTRY Connect device to which you are currently connected.

2. **Back-end systems (e.g. TIPS, WIS, etc.):** This indicates the status of the currently connected XENTRY Connect‘s connection to the infrastructure‘s back-end servers.

All back-end connections are available

Not all back-end connections are available. At least one back-end server is not accessible.

No back-end connections are currently available on the XENTRY Connect.

3. **Connection type:** WLAN or LAN. The icon shows whether the XENTRY Connect is connected to the network or XENTRY Tab using a cable or wirelessly.

LAN connection via cable active
WLAN connection active, WLAN field strength 80 to 100%
WLAN connection active, WLAN field strength 60 to 80%
WLAN connection active, WLAN field strength 40 to 60%
WLAN connection active, WLAN field strength 20 to 40%
WLAN connection active, WLAN field strength less than 20%
No WLAN connection / no WLAN field strength

4. **Power supply/rechargeable battery:** The icon shows whether the currently connected XENTRY Connect is supplied with external power or operated using power from a rechargeable battery.
   a. A connector is shown if it is supplied using a power supply unit
   b. A battery with five different fill levels (from green to yellow to red) is shown if it is supplied via the rechargeable battery

Rechargeable battery is charging and the XENTRY Connect is supplied with external power.
Rechargeable battery operation. Fill level 80% - 100%
Rechargeable battery operation. Fill level 60% - 80%
Rechargeable battery operation. Fill level 40% - 60%
Rechargeable battery operation. Fill level 20% 40%
Rechargeable battery operation. Fill level 0% - 20%

5. **Diagnostic connector:** Shows a vehicle with the statuses:

OBD connector inserted, terminal 30 detected, connection to the vehicle available.
OBD connector not inserted, terminal 30 not detected, no connection to the vehicle available.

8.3.2 Deskband pop-Up

Clicking onto any area in the deskband opens the deskband pop-up.

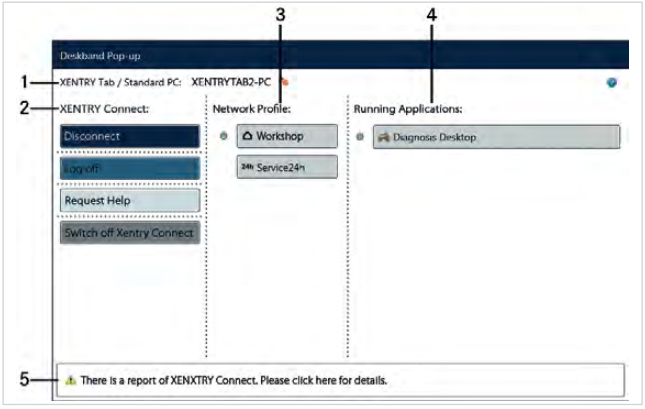


Figure 28: Deskband pop-Up

1. The header displays the name of the XENTRY Tab currently connected to the XENTRY Connect.

2. The main area of the deskband pop-up is divided into three columns. The current session can be influenced in the XENTRY Connect area.

- **Disconnect:** The user terminates the visual connection to the XENTRY Connect; all applications (e.g. XENTRY Diagnostics) continue to run. The device is displayed as occupied to other users and only the original user can reconnect to it at any time from his XENTRY Tab. This may be helpful e.g. in the case of a quick test, initial startup and control unit programming.

- **Log off:** The user logs off from the currently connected XENTRY Connect and releases it in the network; all running applications and diagnostic processes are terminated. The device can now be used by other users.

- **Switch off XENTRY Connect (standby):** You can switch the XENTRY Connect off directly here (standby). Please note that the XENTRY Connect will automatically switch on again if it is still connected to the vehicle via OBD. The connection to the vehicle must be disconnected so that the XENTRY Connect switches to standby.

- **Request help:** This button can be used to request help. This means that you can ask a colleague for help if you cannot continue to work alone in your current diagnostic session or would like to show him something.

If help is provided by a colleague, i.e. in the event of a possible passive and active view of the XENTRY Tab, additional icons are used in the deskband pop-up headline to show which user has control and which is the spectator.

= passive view
= active view

Clicking “Request help“ will cause the XENTRY Connect to be displayed as follows in the XENTRY Control selection screen:

Figure 29: View of tile after help request has been sent

Each employee in your workshop can now also connect to your XENTRY Connect via the selection screen by clicking onto the tile. You can see this thanks to a corresponding notice message, which you may confirm or reject.
After confirming the notice message, a distinction is now made between an active and passive view.

An active view means that this user has control of XENTRY Connect and is able to operate it.

A passive view means that the user is merely a spectator and can watch what the user in control (=active view) is doing. If you have requested help, you can transfer control to the colleague; you yourself are then the passive spectator and he is able to take over operation. You can request control back from your colleague or transfer it to him again at any time.

3. In the network profile area you have the option of changing the network profile, i.e. switch between workshop mode and Service24h. In this case, both devices are simultaneously switched to the selected network profile.

4. Under running applications, an overview of all applications currently running on the XENTRY Connect is displayed. You may use this to switch to another running application.

5. The deskband pop-up‘s footer serves as a status display, e.g. in the case of possible errors or notes.

An additional click outside of the deskband pop-up or clicking onto the deskband again closes the pop-up.

9 Operating Tools

In addition to XENTRY Control, further helpful operating tools can also be found on your XENTRY Tab or your XENTRY Connect‘s diagnosis desktop.

9.1 Support Tool

The Support Tool is available as a link on the XENTRY Tab desktop after loading the XENTRY Tab / standard PC update DVD.

It is called using the link.

The Support Tool offers a quick option for compiling all necessary data and information for support as well as for finding manuals and forms. It also offers a simple option for creating screenshots.

The Support Tool is primarily used to compile the data required for a support ticket for the Diagnosis User Help Desk. In the event of ticket processing via XSF, the relevant Diagnosis User Help Desk employee will be happy to guide you through the support tool and help you to compile all the information which he requires for a quick analysis & remedy.

The Support Tool offers various menus.

- **XENTRY Connect:**

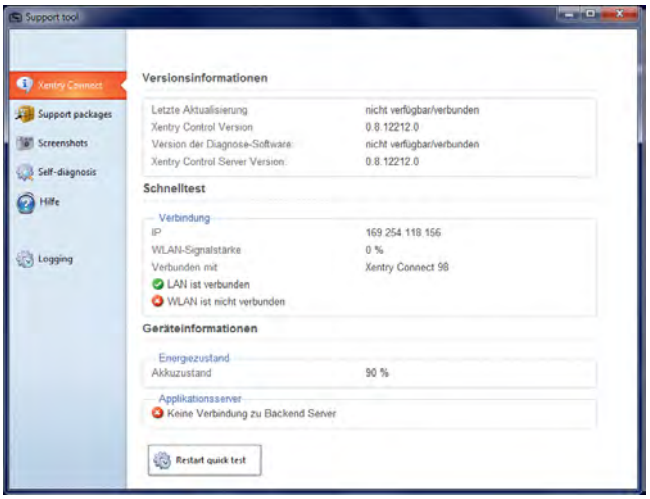


Figure 30: Support Tool overview for XENTRY Connect

Version & device information plus a quick test for the XENTRY Connect are available here.

- **Support packages**

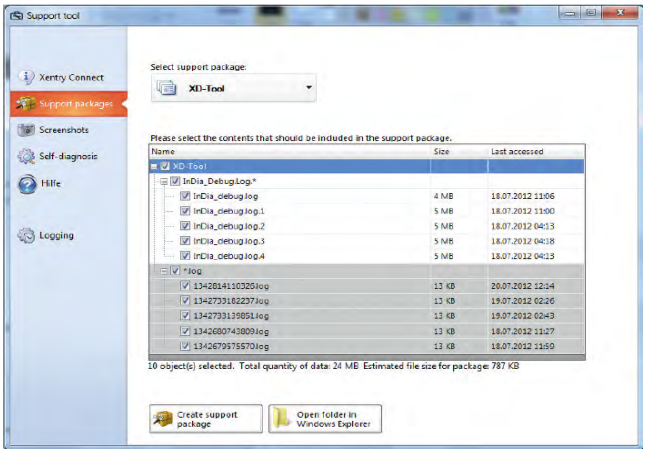


Figure 31: Overview of support packages

Under “Support packages“, you can use a drop-down menu to select which support package you would like to create. By setting the ticks, you can then select screenshots and log files and click onto “Create support package“. The files can then be called using the “Open folder in Windows Explorer“ button.

- **Screenshots**

You can create and select screenshots in the “Screenshots“ menu item. The Support Tool is minimized by clicking onto the “Screenshot“ button.

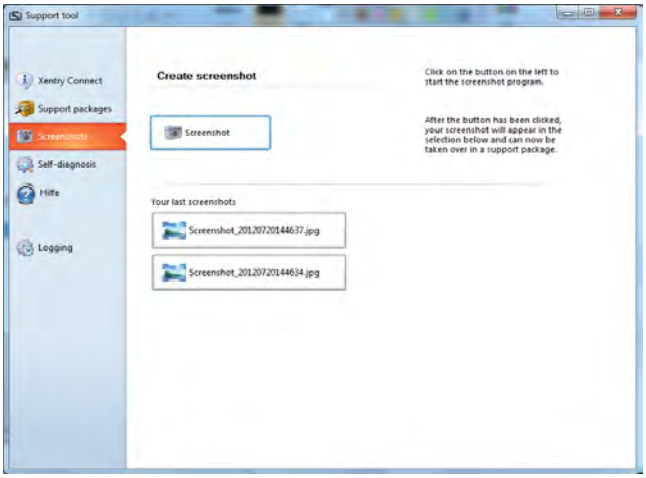


Figure 32: Overview of screenshots

The „objective“ appears:

Figure 33:

Objective for creating screenshots using the Support Tool

You can now switch to the desired view for which you would like to create a screenshot.
Clicking onto the objective creates and saves the screenshot and displays it in the list in the Support Tool.

Once created, a screenshot “Screenshot_(date_time).jpg“ is displayed by clicking onto it.

- **Self-diagnosis**

The “Self-diagnosis“ menu item can be used to execute various XENTRY Connect self-diagnosis processes, if you need more detailed information regarding a fault.

Clicking onto self-diagnosis opens the self-diagnosis manager

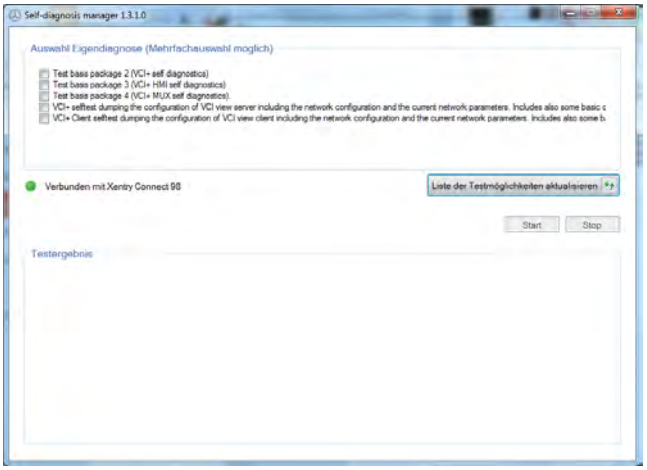


Figure 34: Self-diagnosis selection screen in the Support Tool

Five self-diagnosis processes are available:
a) Basic test package 2 (XENTRY Connect + self-diagnosis)
b) Basic test package 3 (XENTRY Connect + HMI self-diagnosis)
c) Basic test package 4 (XENTRY Connect + MUX self-diagnosis)
d) XENTRY Connect self-diagnosis + network self-diagnosis
e) XENTRY Connect client self-diagnosis + network self-diagnosis

- **Help**

A collection of numerous instructions, forms and information is available under the “Help“ menu item.
The documents have been relocated from the INFO information system to the Support Tool.

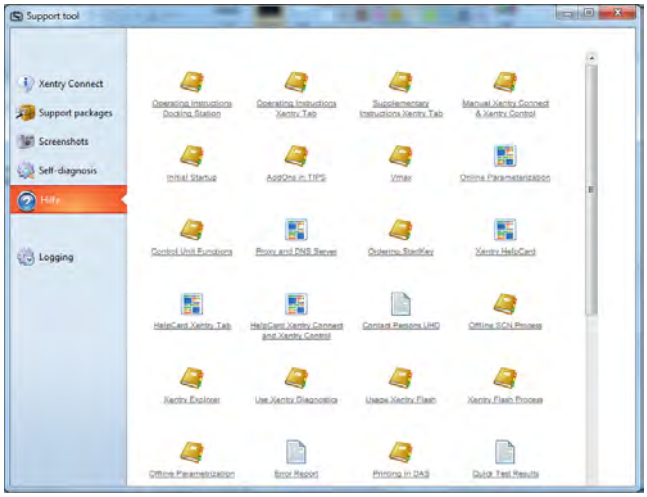


Figure 35: Help in the Support Tool

9.2 StartKey Center

The StartKey Center is located on your XENTRY Connect‘s diagnosis desktop.
It is called using the button.
The following screen will appear once you open the StartKey Center:

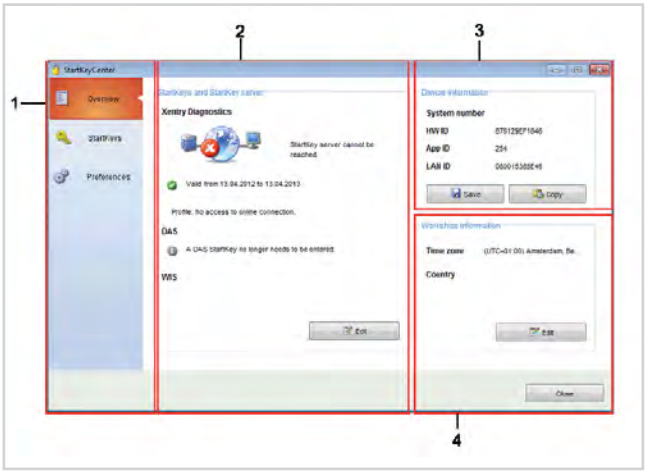


Figure 36: StartKey Center overview

1 = StartKey Center menu
2 = StartKeys and StartKey server: validity of the StartKeys, license server query
3 = Device information: system number, HW ID, APP ID, LAN ID
4 = Workshop information: time zone and country

Note: To load the StartKey using a USB stick, please insert this into the XENTRY Tab.

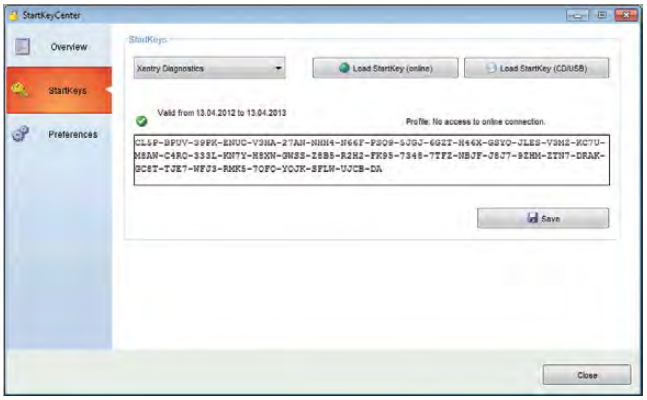


Figure 37: StarKeys overview

The time zone can be specified in the “Preferences“ tab.

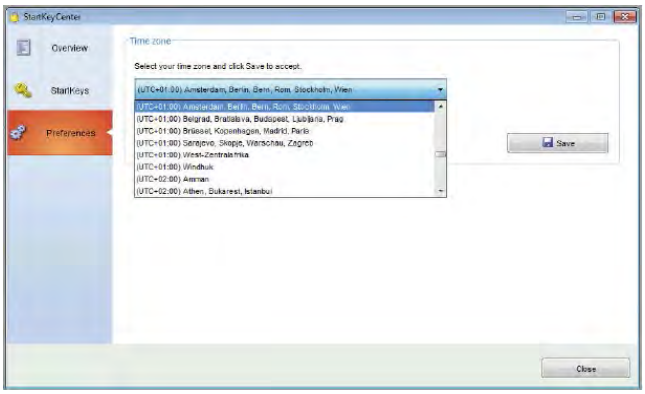


Figure 38: Preferences

Note: When installing the StartKey, please also specify your time zone in the “Preferences“ tab.

Further information on installing the StartKeys can be found in the chapter entitled “Initial Startup“.

9.3 UpdateAssist

UpdateAssist is started using the link on the XENTRY Tab after installing the XENTRY Control software DVD for XENTRY Tab/standard PC.

UpdateAssist is used to provide support during updates or recovery on the XENTRY Tab and the XENTRY Connect.
It shows you how to proceed step by step.

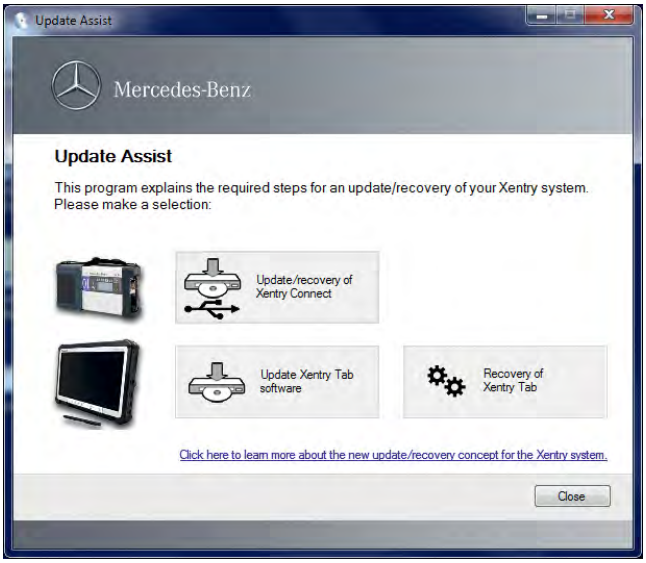


Figure 39: UpdateAssist overview

You can select the device for which you want to perform an update or recovery in the start screen.
Updates are available for both the XENTRY Connect (normal update cycle every 2 months) and the XENTRY Tab (irregularly).

Note: In the case of XENTRY Connect, recovery corresponds to a normal update process, as the XENTRY Connect is cleaned up and re-implemented with each update.

Further information on the update process is available in the chapter entitled “Update & Recovery“.

9.4 AddOn Center

If necessary, your system will also continue to be supplied with so-called add-ons along with the online updates.
These are automatically downloaded in the background as soon as your system is logged into the network. Installation of the add-ons is carried out automatically when the devices are shut down (similar to Windows updates).

The AddOn Center tool is available to see which add-ons are installed or if you would like to initialize installation manually.
It runs on both the XENTRY Tab and the XENTRY Connect.

On the XENTRY Connect, calling is carried out using the following link on the diagnosis desktop.

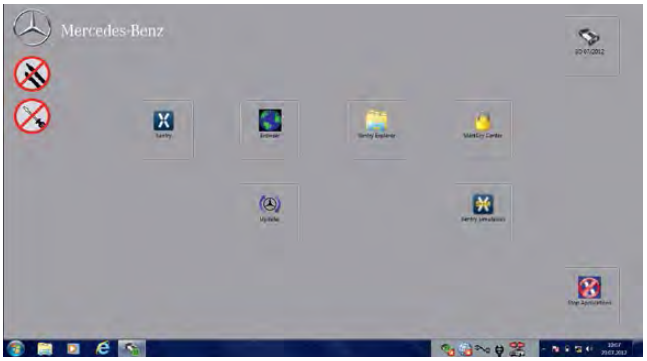
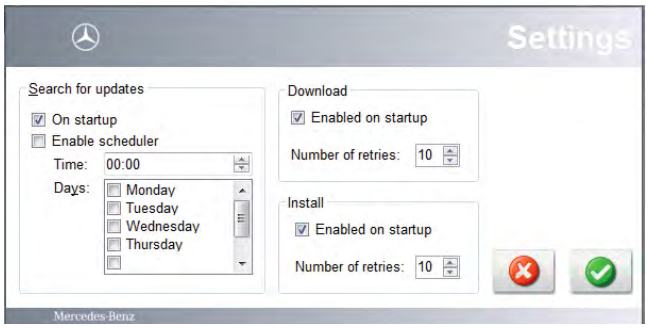


Figure 40: Diagnosis desktop on the XENTRY Connect

Clicking onto this button opens the following window:

1 = Updating the display screen.
2 = Start to download the marked add-ons. Automatic download is activated.
3 = Start to install the marked add-ons. Automatic add-on installation is activated.
4 = Settings for searching for add-ons, for download and installation.
5 = System information: overview of which add-ons have already been installed on the system.
6 = Display of available add-ons.

Re. 4: The button can be used to change the settings for searching for, downloading and installing add-ons.



Note: We recommend not making any changes to the settings, in order to always receive available add-ons automatically.

Re. 5: The button can be used to display an overview of all add-ons installed on your system. This information may be helpful if support is required.

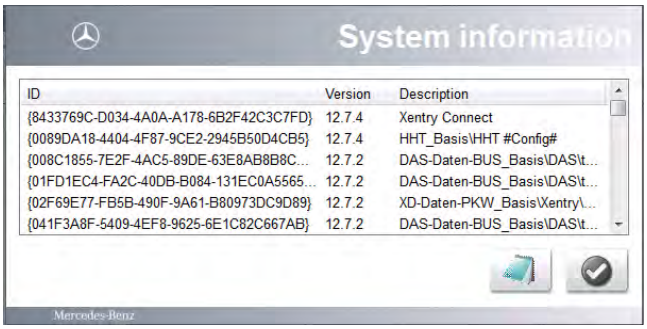


Figure 41: System information

The list can be exported by clicking onto the icon; the display is exited again by clicking onto the icon.

10 Update & Recovery

The systems are updated at regular intervals using the XENTRY Connect software Blu-ray Disc (BD) and the XENTRY Control software update DVD for XENTRY Tab/ standard PC.

UpdateAssist visualizes the steps required for an update or recovery and is started automatically when an update or recovery has been performed. Refer to the “UpdateAssist“ chapter for more detailed information on UpdateAssist.

Subsequent to XENTRY Connect update or recovery, specific backed-up or user-related data (such as StartKey, network configuration, language setting, application configurations, workshop information) can be selected for acceptance.

You may then decide which data (e.g. StartKey) and settings (e.g. network configuration) are to be made available again following the update.

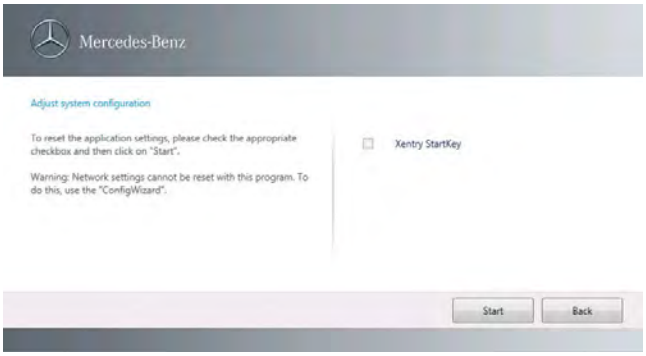


Figure 42: Recovery of user-related data

10.1 XENTRY Connect Update

10.1.1 XENTRY Connect Software Blu-ray Disc

The XENTRY Connect or the software on the XENTRY Connect is updated in the familiar 2-month cycle.
To do this, you are provided with the XENTRY Connect software BD, which is installed onto the XENTRY Connect using the Blu-ray drive (connection with USB Y-cable). For information on how an update is carried out on the XENTRY Connect and what has to be noted, please see the chapter entitled “UpdateAssist“.

Note: Please make sure that both the XENTRY Connect and the Blu-ray drive are connected to a power supply.

10.1.2 XENTRY Connect Online Update (AddOns)

Your system will also continue to be automatically supplied with online updates, so-called add-ons.
For further information, please see the chapter entitled “AddOn Center“.

10.2 Recovery XENTRY Connect

To reset the XENTRY Connect to an earlier status, it is sufficient to install a current XENTRY Connect software BD, i.e. to carry out a normal update.
The update is an image which cleans up and resets the XENTRY Connect with each update, thereby rectifying any existing system errors (the recovery and update processes are identical).
User-related data (user, language, etc.) on the system are nevertheless retained.
Please follow the update instructions in the preceding chapter.

10.3 XENTRY Tab Update

10.3.1 XENTRY Control Software for XENTRY Tab / Standard PC Update DVD

You will receive the XENTRY Control software update DVD for XENTRY Tab/standard PC at irregular intervals for your XENTRY Tab.

This DVD is used to update the following Daimler applications:

- XENTRY Control
- XENTRY Measurement Technology (on XENTRY Tab only)
- Support Tool
- UpdateAssist
- Virus scanner

For information on how an update is carried out on the XENTRY Tab and what has to be noted, please see the chapter entitled “UpdateAssist“.

10.3.2 XENTRY Tab Online Update (AddOns)

In the future, the XENTRY Tab / standard PC will also be automatically supplied with the online updates, the so-called add-ons.
For further information, please see the chapter entitled “AddOn Center“.

10.3.3 Windows Updates on the XENTRY Tab

The Windows updates must be installed on the XENTRY Tab at regular intervals.
These protect your system against attacks and close security gaps in the operating system.
This is also necessary for correct execution of the applications and is helpful for fast, specific support in the event of a fault.
The Windows updates are automatically downloaded in the background when the XENTRY Tab is connected to the Internet, and are installed automatically. After restarting, the XENTRY Tab is ready to operate again.

Note: Make sure that the “Automatically install Windows updates“ option is activated in the XENTRY Tab‘s system control and ensure that these updates are carried out regularly.

10.3.4 Virus Scanner Update

On initial startup, a virus scanner is installed on the XENTRY Tab using the XENTRY Control software for XENTRY Tab/ standard PC DVD.
Make sure to regularly update the virus scanner yourself so that virus protection is maintained and your device and the workshop network are protected. An Internet connection is required for updating.

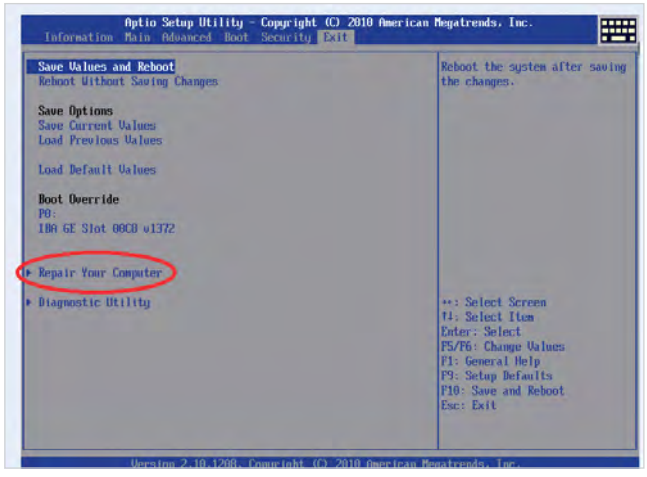
10.4 XENTRY Tab Recovery

In the event of problems, you may reinstate your XENTRY Tab and the XENTRY Tab software using a repair mechanism.

Note: Please back-up all user-related data on an external drive before performing recovery. All of the user‘s own data and personally installed software are deleted as a result of recovery.

To start recovery, restart the XENTRY Tab and, whilst it is booting, either press the function button with the key or click onto the text on the top left:

At the top of the user interface which is subsequently displayed, select the “Exit“ menu and then the “Repair Your Computer“ option.



Recovery then starts. Now follow the dialogs on the screen. In a further step, you are requested to set Windows up again. The steps are similar to those during initial startup. Take a look at the chapter entitled “Initial Startup & Configuration“ for further information on setting up Windows.

11 Service & Support

11.1 Diagnosis User Help Desk (UHD)

Report all system faults, damage or defects immediately to the User Help Desk.

The User Help Desk also provides support in the case of:
- all IT-related questions regarding the XENTRY Kit
- problems with the XENTRY Kit hardware
- problems with the XENTRY Kit's Windows 7 operating system
- problems with the XENTRY Kit application software
- user questions "How can the function...", "What is to be done if ...", etc.

As before, support for vehicle-specific questions will be provided by the familiar support functions. The Diagnosis User Help Desk is available to you in the languages and at the times listed below:

Contact details:

Fax: +49 (0) 1805-223 363
Email: stardiagnosis.support@daimler.com

Language	Telephone	Office hours
German (CET)	+49 (0) 1085-223 333	Mo-Fr 07.00-20.00 Sa 07.00-14.00
English (CET)	+49 (0) 1805-223 332	Mo-Fr 00.00-24.00 Sa 00.00-24.00
Spanish (CET)	+49 (0) 1805-223 331	Mo-Fr 07.00-20.00 Sa 07.00-14.00
French (CET)	+49 (0) 1805-223 330	Mo-Fr 07.00-20.00 Sa 07.00-14.00
Italien (CET)	+49 (0) 1805-223 329	Mo-Fr 07.00-20.00 Sa 07.00-14.00
Dutch (CET	+49 (0) 1805-223 342	Mo-Fr 7.00-20.00 Sa 07.00-14.00
Japanese (JST)	+49 (0) 1805-223 342	Mo-Fr 07.00-22.00 Sa 07.00-19.00

No service on December 25th and 26th.

A current overview of times and telephone numbers can also be found in the Mercedes-Benz After Sales Portal under: Products & Solutions -> Product Support -> Diagnosis Query
Before contacting support, please have necessary information such as the system number to hand.

11.2 Accessory Article Order Numbers

A list of the accessory articles for XENTRY Kit can be found below.

Order number	Article designation
XENTRY Tab	
6511 9212 99z	XENTRY Tab power supply unit
6511 9205 99z	XENTRY Tab control pen (3 units)
	XENTRY Tab control pen with cord and cleaning cloth
6511 9221 99z	XENTRY Tab on-board electrical system cable 12/24 V
6511 9222 99z	XENTRY Tab rechargeable battery charging station
6511 9215 99z	XENTRY Tab docking station
6511 9220 99z	XENTRY Tab protective foil
6511 9203 99z	XENTRY Tab rechargeable battery
XENTRY Connect	
	XENTRY Connect power supply unit
	XENTRY Connect connecting cable to XENTRY Tab/standard PC
6511 9102 99z	Case for the XENTRY diagnostic system
6511 2838 99z	USB-to-RS232 adapter (required to use the SBC flash box on the XENTRY Connect
	XENTRY Connect docking station
6511 9103 99z	XENTRY Connect rechargeable battery
	XENTRY Connect small part set
6511 2401 99z	XENTRY Connect cable to the vehicle (8-pin/monitoring)
6511 2421 99z	XENTRY Connect cable to the vehicle (14-pin)
6511 2541 99z	XENTRY Connect cable to the vehicle (16-pin/OBD
Multi-variant accessories	
6511 9117 99z	Blu-ray drive for XENTRY diagnostic system/with power supply unit
6511 9120 99z	Power supply unit for XENTRY diagnostic system Blu-ray drive

The current order form can also be found in the Mercedes-Benz After Sales Portal under: Products & Solutions -> Prices.

11.3 Activation of the Wireless Network Connection/ WLAN Adapter

Proceed as follows to activate the WLAN adapter on the XENTRY Tab:

1. Click onto the Windows icon at the bottom left in the taskbar.
2. Then onto Control Panel – Network and Internet – Network and Release Center – Change Adapter Settings
3. Clicking onto “Wireless Network Connection“ with the right mouse button opens a pop-up, in which you can click onto “Enable“.

The WLAN adapter is then reactivated. This can be seen by the WLAN icon at the bottom right in the taskbar.

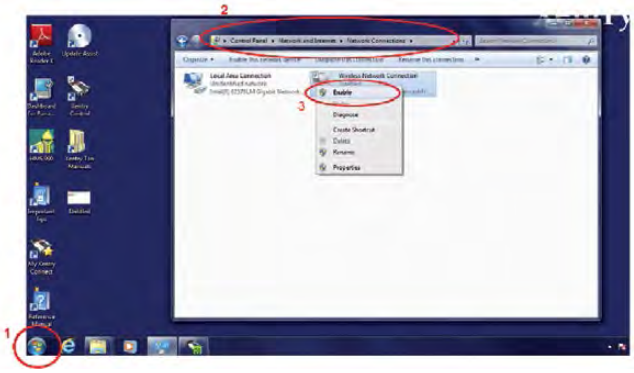


Figure 43: Activation of the wireless network connection

12 Safety information and product liability

Carefully read this operating and safety information before using the device.
THESE SAFETY INSTRUCTIONS SHALL BE OBSERVED WITHOUT FAIL.

12.1 General Safety Information

When working with the diagnostic systems, various safety instructions apply as in the case of other workshop operations. Special safety information is not provided for each component, as the provided information is to be applied analogously to components that are not mentioned.

1. Read all instructions in the literature supplied before you use the unit.
2. Follow the installation instructions in this user guide.
3. Only use the system as specified in the manufacturer‘s instructions, otherwise safety may be affected.
4. Only use system components which are part of the scope of supply, and note the descriptions in this user guide.
5. Never use the system components in the vicinity of open flames or chemical liquids.
6. Internal arcing may occur and sparks may be formed when the systems are in use. Due to explosion protection reasons, all switches, connectors and other spark-forming units must therefore be located a minimum distance of 46 cm away from the ground.
7. Maintain a minimum distance of 13 cm between electrical devices which generate a strong magnetic field (e.g. motors, magnets, televisions, refrigerators and large speakers) and the computer.
8. Use only approved mains cables.
9. Do not use any faulty cables, damaged or destroyed system components.
10. Do not use the device with defective cables or after damage (e.g. dropping) until it has been inspected serviced by the personnel authorized to do this.
11. If extension cables are needed, only use suitable cables that are authorized for the power input, as unsuitable connections can overheat and cause fires.
12. Make sure that all cables are routed properly so that there is no danger of tripping and that no possible damage can be caused during the work procedure in the workshop.
13. Never allow cable connections to hang over sharp corners or edges, and never allow them to come into contact with hot or moving vehicle components.
14. Check that the unit is grounded. Connect the power cable to a properly grounded socket.
15. Do not connect or release any cables during a storm, as this may otherwise lead to an electric shock. Do not undertake any installation, maintenance or reconfiguration during this time.
16. Remove electrical connections from the power supply when they are not in use.
17. Do not route adapter or connection cables close to hot parts. Danger of damage.
18. Do not route adapter or connection cables close to high voltage parts. May cause interference.
19. Damaged, broken or bent pins in the plugs can lead to damage to the vehicle/unit and can negatively affect the user‘s health.
20. Have diagnostic systems installed, maintained, reconfigured, serviced and repaired by authorized persons only.
21. Do not carry out any repairs yourself. Contact the User Help Desk for repairs.
22. Never pull on the cable to pull out a plug; pull on the plug itself.
23. Let all parts cool down before you transport them.
24. Do not use outside means to cool the system.
25. Do not operate the device in the vicinity of open fuel containers to avoid the risk of an explosion or fire.
26. Do not use the system on a damp surface or in the rain, as this may otherwise lead to electrical damage.
27. Do not use tools to open the components to perform repairs.
28. Perform all work in the engine compartment when the engine is not running and the ignition is switched off. Danger of injury due to rotating or hot parts.
29. When performing necessary checks on running engines, route the test lines outside the engine area.
30. Use of wireless communication networks and the operation of systems within these networks is subject to the guidelines and regulations in your country. More information about this is available from the responsible authorities. Find out about country-specific regulations for the operation of wireless communication networks in your market.

12.2 XENTRY Connect Safety Information

1. Keep the unit in a cool and dry location.
2. The ideal operating temperature is a room temperature of 20°C; however, the device can be operated at ambient temperatures of 0°C to 50°C.
3. The housing surface heats up during operation
4. The device may only be stored in areas where it is protected against dust, humidity, and spraying and dripping water, and at a storage temperature of -20°C to +60°C.
5. Only approved USB devices may be connected.
6. Only use the cables provided.
7. Only use the power supply unit included on delivery when supplying power via the round DC jack (next to the USB jacks).
8. The vehicle interfaces specified only for 12 V on-board electrical systems (K-lines, 38-pin) have an upper supply voltage limit of 16.0 V. An upper supply voltage limit of 32 V and a lower limit of 8 V otherwise apply in the case of a nominal supply voltage of 13.5 V.
9. Only trained personnel may remove the housing screws to open the housing.
10. WARNING: For explosion protection reasons, the XENTRY Connect must be operated at least 46 cm above the ground in order to rule out the ignition of pools of flammable gases!
11. Liability and warranty claims based on improper use of the device will not be accepted. The same applies to direct and indirect damages that can occur due to improper or incorrect device use.
12. If one of the warranty terms is not valid, the laws of the Federal Republic of Germany apply.
13. If USB devices with an external power supply are used, the protection class of the power supply must comply with the following guidelines:
    Protective insulation – protection class II with marking (according to VDE 0100 part 410, 412.2.1.1)

IMPORTANT SAFETY INSTRUCTIONS RELATING TO

1. Read all instructions.
2. Do not operate equipment with damaged cable or if equipment has been damaged – until it has been examined by a qualified serviceman.
3. To protect against risk of fire, do not operate equipment in the vicinity of open containers of fuel (gasoline).
4. To reduce the risk of electric shock, do not use on wet surfaces or expose to rain.
5. Adequate ventilation should be provided when working on open combustion engines.
6. Use only as described in the manual. Use only manufacturer's recommended attachments.
7. WARNING: Risk of explosion. This Equipment has Internal Arcing or Sparking Parts Which Should Not Be Exposed To Flammable Vapor. This Equipment Should Be Located At Least 460mm (18 Inches) Above The Floor.
   SAVE THESE INSTRUCTIONS

12.3 XENTRY Tab Safety Information

The safety information for the XENTRY Tab can be found in paper form in your system's case.

12.4 XENTRY HMS 990 USB Measurement Technology Safety Information

Only use the inputs of the HMS 990 USB Measurement Technology to measure motor vehicle on-board electrical system voltages and motor vehicle currents.

12.5 Theft Protection

A PC security lock (e.g. Kensington lock) can be installed to secure the XENTRY Tab and the XENTRY Connect. The installation opening is located on the upper side of the devices.

12.6 Product liability

Infringements of or failure to observe the instructions in this user guide may lead to damage. Daimler AG rejects any liability in this event.

13 Certification

13.1 Device Certification

13.1.1 XENTRY Connect

Certificate	Country	XENTRY Connect
CE	Europe	X
UL	USA, Canada	X
GOST-R	Russia	X
MIC	South Korea	X (KC = MIC successor)
FCC	USA	X
VCCI	Japan	X
PSE	Japan	X
Technical Conformity Mark	Japan	
E1-Mark	Europe	
MIL-ST-810F	US military	X (516.5 & 514.5)
	Taiwan	

The necessary documents according to the respective certification systems in their currently valid versions are available for the certificates of conformity.

Electromagnetic compatibility (CE conformity marking): According to paragraph 5 of the Electromagnetic Compatibility Act (Gesetz über die elektromagnetische Verträglichkeit von Geräten, EMVG), I+ME Actia is responsible for the declaration of conformity.

I+ME ACTIA Informatik und Mikro-Elektronik GmbH
Dresdenstr. 17/18
38124 Braunschweig
Germany

13.1.2 XENTRY Tab

Certificate	Country	XENTRY Tab
CE	Europe	X
UL	USA, Canada	X
GOST-R	Russia	X
MIC	South Korea	X
FCC	USA	X
VCCI	Japan	X
PSE	Japan	X
Technical Conformity Mark	Japan	X
eKMark	South Korea	X
E1-Mark	Europe	X
MIL-ST-810F	US military	
	Taiwan	X

Additional information on certifications for the XENTRY Tab can be found in the Panasonic document „Safety Precautions and Regulatory Information“, which is enclosed in the case.

13.1.3 Blu-ray Disk Drive

Certificate	Country	XENTRY Tab
TÜV / CE	Europe	X
UL / cUL	USA	X
IC	Canada	X
CB	Japan	X
C-Tick	Australia	X

13.2 WLAN Certification

13.2.1 XENTRY Connect and XENTRY Tab

Country	XENTRY Kit WLAN	XENTRY Connect WLAN
Abu Dhabi (UAE)	Not certified	Not certified
Afghanistan	Not certified	Not certified
Egypt	Not certified	Not certified
Aland Islands	Not certified	Not certified
Albania	Not certified	Not certified
Algeria	Certified	Certified
U.S. Virgin Islands	Not certified	Not certified
Oceania	Not certified	Not certified
Andorra	Not certified	Not certified
Angola	Not certified	Not certified
Antigua/ Barbuda	Not certified	Not certified
Equatorial Guinea	Not certified	Not certified
Argentina	Not certified	Not certified
Armenia	Not certified	Not certified
Aruba	Not certified	Not certified
Azerbaijan	Not certified	Not certified
Ethiopia	Not certified	Not certified
Australian Oceania	Not certified	Certified
Australia	Certified	Certified
Azores	Not certified	Certified
Bahamas	Not certified	Not certified
Bahrain	Not certified	Not certified
Bangladesh	Not certified	Not certified
Barbados	Not certified	Not certified
Belgium	Certified	Certified
Belize	Not certified	Not certified
Benin	Not certified	Not certified
Bermuda	Not certified	Not certified
Bhutan	Not certified	Not certified
Bolivia	Not certified	Not certified
Bosnia-Herzegovina	Certified	Certified
Botswana	Not certified	Not certified
Brazil	Certified	Certified
British Virgin Islands	Not certified	Not certified
Brit. Ind. Ocean Territory	Not certified	Not certified
Brunei	Not certified	Not certified
Bulgaria	Certified	Certified
Burkina Faso	Not certified	Not certified
Burundi	Not certified	Not certified
Ceuta/Melilla	Not certified	Not certified
Chile	Not certified	Not certified
China, PR	Certified	Certified
Costa Rica	Not certified	Not certified
Denmark	Certified	Certified
Democratic Republic of the Congo	Not certified	Not certified
Germany	Certified	Certified
Dominica	Not certified	Not certified
Dominican Republic	Not certified	Not certified
Djibouti	Not certified	Not certified
Dubai (UAE)	Not certified	Not certified

Country	XENTRY Kit WLAN	XENTRY Connect WLAN
Ecuador	Not certified	Not certified
El Salvador	Not certified	Not certified
Ivory Coast	Not certified	Not certified
Eritrea	Not certified	Not certified
Estonia	Certified	Certified
Falkland Islands	Not certified	Not certified
Faroe Islands	Not certified	Not certified
Fiji	Not certified	Not certified
Finland	Certified	Certified
France	Certified	Certified
French Polynesia	Not certified	Not certified
French Guiana	Not certified	Not certified
Gabon	Not certified	Not certified
Gambia	Not certified	Not certified
Gaza	Not certified	Certified
Georgia	Not certified	Not certified
Ghana	Not certified	Not certified
Gibraltar	Not certified	Not certified
Grenada	Not certified	Not certified
Greece	Certified	Certified
Greenland	Not certified	Not certified
Great Britain	Certified	Certified
Guadeloupe	Not certified	Not certified
Guatemala	Not certified	Not certified
Guernsey	Not certified	Not certified
Republic of Guinea	Not certified	Not certified
Guinea-Bissau	Not certified	Not certified
Guyana Rep.	Not certified	Not certified
Haiti	Not certified	Not certified
Honduras	Not certified	Not certified
Hong Kong	Certified	Certified
India	Certified	Certified
Indonesia	Not certified	Not certified
Iraq	Not certified	Not certified
Iran	Not certified	Not certified
Ireland	Certified	Certified
Iceland	Certified	Certified
Isle Of Man	Not certified	Not certified
Israel	Not certified	Certified
Italy	Certified	Certified
Jamaica	Not certified	Not certified
Japan	Certified	Certified
Yemen	Certified	Certified
Jersey	Not certified	Not certified
Jordan	Not certified	Not certified
Caiman Islands	Not certified	Not certified
Cambodia	Not certified	Not certified
Cameroon	Not certified	Not certified
Canada	Certified	Certified
Canary Islands	Not certified	Certified
Cape Verde	Not certified	Not certified
Kazakhstan	Not certified	Not certified
Qatar	Not certified	Not certified
Kenya	Not certified	Not certified

Country	XENTRY Kit WLAN	XENTRY Connect WLAN
Kyrgyzstan	Not certified	Not certified
Kiribati	Not certified	Not certified
Colombia	Not certified	Not certified
Comoros	Not certified	Not certified
Congo	Not certified	Not certified
Korea Rep. (South)	Certified	Certified
Korea PDR (North)	Not certified	Not certified
Croatia	Not certified	Not certified
Cuba	Not certified	Not certified
Kuwait	Not certified	Not certified
Laos	Not certified	Not certified
Lesotho	Not certified	Not certified
Latvia	Certified	Certified
Lebanon	Not certified	Not certified
Liberia	Not certified	Not certified
Libya	Certified	Certified
Liechtenstein	Not certified	Certified
Lithuania	Certified	Certified
Luxembourg	Certified	Certified
Macao	Not certified	Not certified
Madagascar	Not certified	Not certified
Madeira	Not certified	Certified
Malawi	Not certified	Not certified
Malaysia	Not certified	Not certified
Maldives	Not certified	Not certified
Mali	Not certified	Not certified
Malta	Certified	Certified
Morocco	Not certified	Not certified
Marshall Islands	Not certified	Not certified
Martinique	Not certified	Not certified
Mauritania	Not certified	Not certified
Mauritius	Not certified	Not certified
Mayotte	Not certified	Not certified
Macedonia	Not certified	Not certified
Mexico	Certified	Certified
Micronesia	Not certified	Not certified
Moldavia	Not certified	Not certified
Mongolia	Not certified	Not certified
Montenegro	Not certified	Not certified
Mozambique	Not certified	Not certified
Myanmar (Burma)	Not certified	Not certified
Namibia	Not certified	Not certified
Nauru	Not certified	Not certified
Nepal	Not certified	Not certified
New Caledonia	Not certified	Not certified
New Zealand Oceania	Not certified	Certified
New Zealand	Certified	Certified
Nicaragua	Certified	Certified
The Netherlands	Certified	Certified
Niger	Not certified	Not certified
Nigeria	Not certified	Not certified
St. Maarten	Not certified	Not certified
Curacao	Not certified	Not certified
Northern Cyprus	Certified	Certified

Country	XENTRY Kit WLAN	XENTRY Connect WLAN
Norway	Certified	Certified
Oman	Not certified	Not certified
Austria	Certified	Certified
Pakistan	Not certified	Not certified
Panama	Not certified	Not certified
Papua New Guinea	Not certified	Not certified
Paraguay	Not certified	Not certified
Peru	Not certified	Not certified
Philippines	Not certified	Not certified
Pitcairn Islands	Not certified	Not certified
Poland	Certified	Certified
Portugal	Certified	Certified
Puerto Rico	Not certified	Not certified
Réunion	Not certified	Not certified
Rwanda	Not certified	Not certified
Romania	Certified	Certified
Russia	Certified	Certified
Sahara	Not certified	Not certified
Saint Martin (French part)	Not certified	Certified
Solomon Islands	Not certified	Not certified
Zambia	Not certified	Not certified
Samoa	Not certified	Not certified
Sao Tome/Principe	Not certified	Not certified
Saudi Arabia	Certified	Certified
Sweden	Certified	Certified
Switzerland	Certified	Certified
Senegal	Not certified	Not certified
Serbia	Not certified	Not certified
Seychelles	Not certified	Not certified
Sierra Leone	Not certified	Not certified
Zimbabwe	Not certified	Not certified
Singapore	Not certified	Not certified
Slovak Republic	Certified	Certified
Slovenia	Certified	Certified
Somalia	Not certified	Not certified
Spain	Certified	Certified
Sri Lanka	Not certified	Not certified
St. Helena	Not certified	Not certified
St. Lucia	Not certified	Not certified
St. Pierre	Not certified	Not certified
St. Vincent	Not certified	Not certified
South Africa	Certified	Certified
Sudan	Not certified	Not certified
Surinam	Not certified	Not certified
Swaziland	Not certified	Not certified
Syria	Not certified	Not certified
Tajikistan	Not certified	Not certified
Taiwan	Not certified	Not certified
Tanzania	Not certified	Not certified
Thailand	Not certified	Not certified
Timor-Leste	Not certified	Not certified
Togo	Not certified	Not certified

Country	XENTRY Kit WLAN	XENTRY Connect WLAN
Tonga	Not certified	Not certified
Trinidad/Tobago	Not certified	Not certified
Chad	Not certified	Not certified
Czech Republic	Certified	Certified
Turkey	Certified	Certified
Tunisia	Not certified	Not certified
Turkmenistan	Not certified	Not certified
Turks/Caicos Islands	Not certified	Not certified
Tuvalu	Not certified	Not certified
Uganda	Not certified	Not certified
Ukraine	Not certified	Not certified
Hungary	Certified	Certified
Uruguay	Not certified	Not certified
USA	Certified	Certified
Uzbekistan Republic	Not certified	Not certified
Vanuatu	Not certified	Not certified
Vatican	Not certified	Not certified
Venezuela	Not certified	Not certified
United Arab Emirates	Certified	Certified
Vietnam	Not certified	Not certified
Wallis/Futuna	Not certified	Not certified
Belarus	Not certified	Not certified
West Bank	Certified	Certified
Central African Republic	Not certified	Not certified
Cyprus	Certified	Certified

14 List of Illustrations

Figure 1:XENTRY Kit Scope of Supply 6
Figure 2: XENTRY Connect Scope of Supply 6
Figure 3: XENTRY Tab desktop after installing the Daimler software 12
Figure 4: Start screen for configuration with ConfigAssist 13
Figure 5: XENTRY Control selection screen 14
Figure 6: Accessing configuration with the expert dialog 14
Figure 7: XENTRY Control selection screen 14
Figure 8: Deskband 16
Figure 9: Diagnosis desktop on the XENTRY Connect 16
Figure 10: StartKey Center overview 17
Figure 11: Screen for inputting StartKeys 17
Figure 12: Preferences screen in the StartKey Center 17
Figure 13: XENTRY Connect 18
Figure 14: Connection options on XENTRY Connect 18
Figure 15: LEDs, display and buttons 19
Figure 16: XENTRY Connect display 20
Figure 17: XENTRY Connect rechargeable battery statuses 20
Figure 18: XENTRY Connect network profile statuses 20
Figure 19: Panasonic Dashboard on the XENTRY Tab 24
Figure 20: XENTRY Tab with docking station 25
Figure 21: XENTRY HMS 990 USB Measurement Technology 26
Figure 22: SBC flash box 26
Figure 23: MoTeIDis 26
Figure 24: XENTRY Control selection screen 27
Figure 25: Selection screen in XENTRY Control 28
Figure 26: Diagnosis desktop on the XENTRY Connect 29
Figure 27: Deskband 29
Figure 28: Deskband pop-Up 30
Figure 29: View of tile after help request has been sent 30
Figure 30: Support Tool overview for XENTRY Connect 32
Figure 31: Overview of support packages 32
Figure 32: Overview of screenshots 32
Figure 33: Objective for creating screenshots using the Support Tool 33
Figure 34: Self-diagnosis selection screen in the Support Tool 33
Figure 35: Help in the Support Tool 33
Figure 36: StartKey Center overview 33
Figure 37: StarKeys overview 34
Figure 38: Preferences 34
Figure 39: UpdateAssist overview 34
Figure 40: Diagnosis desktop on the XENTRY Connect 35
Figure 41: System information 35
Figure 42: Recovery of user-related data 36
Figure 43: Activation of the wireless network connection 39
Figure 44: XENTRY Connect and XENTRY Tab WLAN certification 42

15 Windows 7 License Guidelines

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• Auto Root Update. The Auto Root Update feature updates the list of trusted certificate authorities. You can switch off this feature.

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• compatible online music services in your region;

• new versions of the player; and

• codecs if your device does not have the correct ones for playing content. You can switch off this feature. For more information, go to: go.microsoft.com/fwlink/?LinkId=51331.

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• Network Awareness. This feature determines whether a system is connected to a network by either passive monitoring of network traffic or active DNS or HTTP queries. The query only transfers standard TCP/IP or DNS information for routing purposes. You can switch off the active query feature through a registry setting.

• Windows Time Service. This service synchronizes with www.time.windows.com once a week to provide your I device with the correct time. The connection uses standard NTP protocol.

• Search Suggestions Service. In Internet Explorer, when you type a search query in the Instant Search box or type a question mark (?) before your search term in the Address bar, you will see search suggestions as you type (if supported by your search provider). Everything you type in the Instant Search box or in the Address bar when preceded by a question mark (?) is sent to your search provider as you type. Also, when you press Enter or click the Search button, the text in the Instant Search box or Address bar is sent to the search provider. If you use a Microsoft search provider, use of the information sent is subject to the Microsoft Online Privacy Statement. This statement is available at go.microsoft.com/fwlink/?linkid=31493. If you use a third-party search provider, use of the information sent will be subject to the third party's privacy practices. You can turn search suggestions off at any time. To do so, use Manage Add-ons under the Tools button in Internet Explorer. For more information about the search suggestions service, see go.microsoft.com/fwlink/?linkid=128106.

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• Media Center Online Promotions. If you use Media Center features of the software to access Internet-based content or other Internet-based services, such services may obtain the following information from the software to enable you to receive, accept and use certain promotional offers:

• certain device information, such as your Internet protocol address, the type of operating system and browser you are using, and the name and version of the software you are using,

• the requested content, and

• the language code of the device where you installed the software.

• Your use of the Media Center features to connect to those services serves as your consent to the collection and use of such information.

• Media Playback Updates. The software on the device may include media playback features which receives updates directly from the MSCORP Media Playback Update servers. If activated by your manufacturer, these updates will be downloaded and installed without further notice to you. The manufacturer is responsible for ensuring these updates work on your device.

• Windows Update Agent. The software on the device includes Windows Update Agent ("WUA"). This feature enables your device to access Windows Updates either directly from MSCORP Windows Update server or from a server installed with the required server component and from the Microsoft Windows Update server. To enable the proper functioning of the Windows Update service in the software (if you use it) updates or downloads to the Windows Update service will be required from time to time and downloaded and installed without further notice to you. Without limiting any other disclaimer in these license terms or any license terms accompanying a Windows Update, you acknowledge and agree that no warranty is provided by Microsoft Corporation or their affiliates with respect to any Windows Update that you install or attempt to install on your device.

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