



Standard Install Guide: Vodafone Mobile Broadband

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Vodafone Mobile Broadband Standard Install Guide

Vodafone Mobile Broadband Standard Install Guide

This document covers the installation of the Vodafone Mobile Broadband application on Microsoft® Windows® operating systems in corporate environments. It explains the command line parameters for the installation.

For large rollouts of the Vodafone Mobile Broadband application using customised user profiles, please refer to our Enterprise Install Guide.

Comparison of the guides covering installing the Vodafone Mobile Broadband application:

	Vodafone Mobile Broadband Standard Install Guide (this document)	Vodafone Mobile Broadband Enterprise Install Guide
<i>Overview of available application variants</i>	✓	
<i>Silent installation command line parameters for msiexec.exe</i>	✓	
<i>Silent installation command line parameters for setup_vmc.exe</i>	✓	
<i>Installing the Vodafone Mobile Broadband application manually</i>	✓	
<i>Frequently Asked Questions (FAQ) about installation</i>	✓	
<i>Corporate Setup Package</i>		✓
<i>Customisation Files</i>		✓
<i>Customisation Examples</i>		✓
<i>Supported VPN Clients</i>		✓
<i>ABC (Always Best Connected) settings for automatic connection management</i>		✓
<i>Using Transforms for customisation</i>		✓

Installation of the Vodafone Mobile Broadband application

Installation of the Vodafone Mobile Broadband application

Introduction

This document is based on version 10.2 of the Vodafone Mobile Broadband application (VMB 10). The installation of VMB 10 requires certain Microsoft software to be installed on the target computer. This software will be installed from the VMB 10 application media, e.g. a VMB 10 CD, if it is not already present. The VMB 10 installer checks specific start conditions before proceeding with the installation.

Operating Systems & Software Requirements

For supported operating systems and software requirements please refer to the Vodafone Mobile Broadband ReadMe.

Variants of the Vodafone Mobile Broadband Application

Vodafone Mobile Broadband is available in three variants:

- 'Full' refers to the download variant and has no restrictions. Use this variant for manual installation on a small number of computers.
- The 'Lite' variant can be installed from the removable data storage in USB modems, data cards and mobile phones with on-board memory. Due to current restrictions on the size of on-board storage space, the Lite variant has several limitations (see table below). This variant is intended for consumers and is usually not used in a corporate environment.
- 'Corporate', does not check the application requirements and is intended for large, controlled corporate roll-outs.

The following table compares the 'Corporate' variant to the 'Full' and 'Lite' variants.

- 'Yes' or 'No' means the item is part of the build ('Yes') or not ('No')
- 'All' means all drivers are available, whereas 'Subset' means only those drivers for the manufacturer of the device are contained from which the Lite build is being installed.

VMB build items	Corporate	Full	Lite
<i>Check for Setup Requirements</i>	No	Yes	Yes
<i>Microsoft .Net Framework 2.0</i>	No	Yes	Yes
<i>Microsoft Windows Installer 3.1</i>	No	Yes	Yes
<i>MFC/C++ run time assemblies</i>	No	Yes	Yes
<i>Drivers</i>	All	All	Subset
<i>Operators</i>	All	All	All

Installation of the Vodafone Mobile Broadband application

<i>Application Languages</i>	All	All	All
<i>Help File Languages</i>	All	All	Multilingual Troubleshooting
<i>Network Optimiser</i>	Yes	Yes	No
<i>Conflicting Applications Management</i>	Yes	Yes	No

Important – when using the ‘Corporate’ variant, you need to ensure that all the application prerequisites are installed on the target computers before installing or rolling out Vodafone Mobile Broadband. The application will not run at all, or not properly, if this step is omitted.

For supported operating systems please refer to the Vodafone Mobile Broadband ReadMe.

Setup Requirements (required for XP only)

There is one setup prerequisite and another one which is dependent on the first one. The first one is a hotfix from Microsoft “Wireless LAN API (KB918997)” which is described at

<http://www.microsoft.com/downloads/details.aspx?FamilyId=52A43BAB-DC4E-413F-AC71-158EFD1ADA50&displaylang=en>

The dependent one is “Microsoft Core XML Services (MSXML)” which is described at

<http://www.microsoft.com/downloads/details.aspx?FamilyID=993c0bcf-3bcf-4009-be21-27e85e1857b1&displaylang=en>

Microsoft .Net Framework 2.0 (required for XP only)

The DotNet Framework version 2.0 can be downloaded from

<http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=0856eacb-4362-4b0d-8edd-aab15c5e04f5>

Microsoft Windows Installer 3.1 (required for XP only)

The MSI Installer version 3.1 can be downloaded from

<http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=889482fc-5f56-4a38-b838-de776fd4138c>

MFC/C++ 8.0.50727.762

The run time assemblies Microsoft Visual C++ 2005 SP1 Redistributable Package (x86) can be downloaded from

<http://www.microsoft.com/downloads/details.aspx?FamilyID=200b2fd9-ae1a-4a14-984d-389c36f85647&displaylang=en>

Drivers

VMB supported drivers (please refer to the ReadMe file for details).

Opcos

VMB supported Opcos (please refer to the ReadMe file for details).

Languages

VMB supported languages (please refer the ReadMe file for details).

Installation of the Vodafone Mobile Broadband application

Network Optimiser

Network optimisation software.

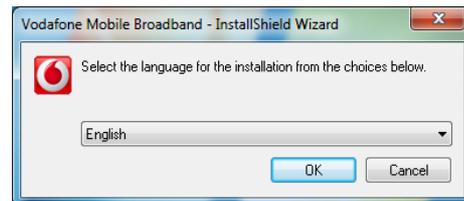
Installing the Vodafone Mobile Broadband application manually

Start the file setup_vmb.exe and follow the instructions in the windows presented by the installation process.

Installation Sequence of Vodafone Mobile Broadband ('Full' variant)

1. Language Window

The language of this window is determined by the system language settings of the computer. The user can choose the language for the installation process from the drop-down menu. The chosen language will be used for the Vodafone Mobile Broadband 10 application as well. All supported languages are listed in the Vodafone Mobile Broadband ReadMe.



2. Preparation Window

The setup_vmb.exe application displays this window while checking the operating system version, as well as other system requirements, before installing the Vodafone Mobile Broadband application to the target system.



3. Vodafone Network (OpCo) Window

This window is the first one which will be displayed after the setup_vmb.exe application (setup launcher) has finished successfully. A mobile network operator must be chosen in order to continue with the Vodafone Mobile Broadband Installer. Otherwise the button labelled 'Next >' will remain disabled.

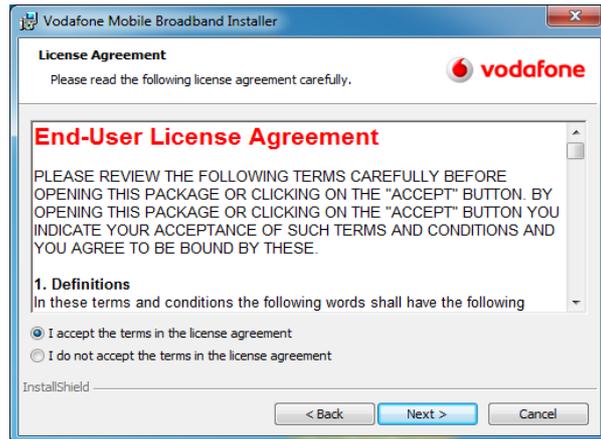
The installation tries to detect the mobile network operator from the operating system, and pre-select it in the drop-down menu. Otherwise the default text 'Please select your network operator...' will be displayed. All supported network operators are listed in the Vodafone Mobile Broadband ReadMe.



Installation of the Vodafone Mobile Broadband application

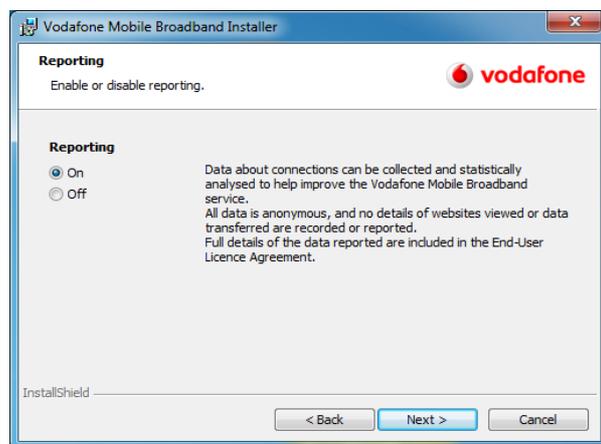
4. License Window

The installation will proceed only if the user accepts the terms in the license agreement by clicking on the radio button labelled 'I accept the terms in the license agreement'. Otherwise the 'Next >' button will not be enabled. This window can be hidden during installation by setting the element 'AskEULA' to 'False' in the <opco>.xml file.



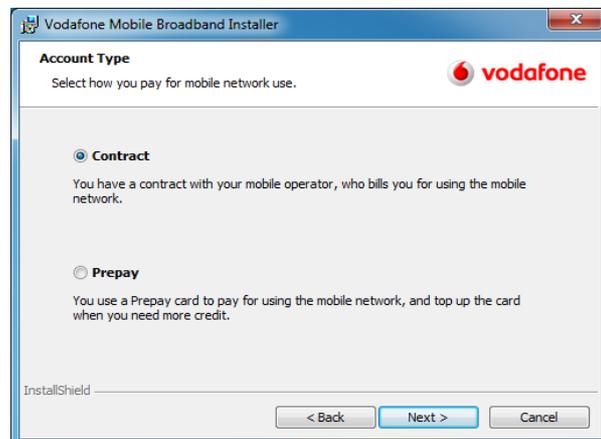
5. Reporting Window

Reporting can be switched on or off by clicking the respective radio button. This window can be hidden during installation by setting the element 'AskReports' to 'False' in the <opco>.xml file. The value of the Reporting option is also controlled by an entry in the <opco>.xml file.



6. Account Type Window

This setting depends on the account type of the user. The window can be hidden during installation by setting the element 'AskAccountType' to 'False' in the <opco>.xml file. The value of the Account Type option is dependent on the option being displayed: hiding this window means that the Account Type can also be selected later during first-run.



Installation of the Vodafone Mobile Broadband application

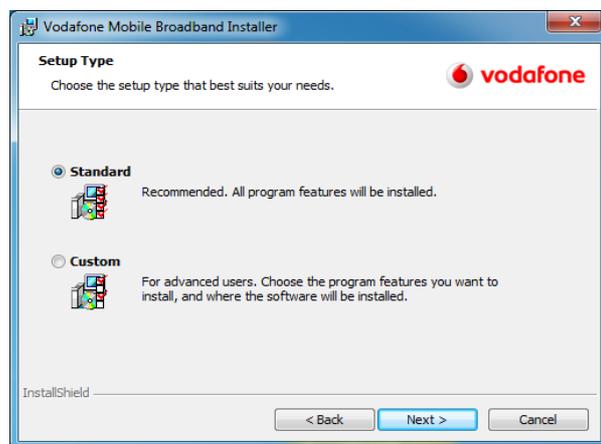
7. TCP/IP Settings Window

The 'Optimise Settings' option is used to set some TCP/IP parameters in the Windows Registry. Allowing optimisation requires a reboot of the system after installation. This window can be hidden during installation by setting the element 'AskTcpSettings' to 'False' in the <opco>.xml file. The value of the TCP/IP Settings option is controlled by an entry in the <opco>.xml file, as are the actual TCP/IP settings to be applied.



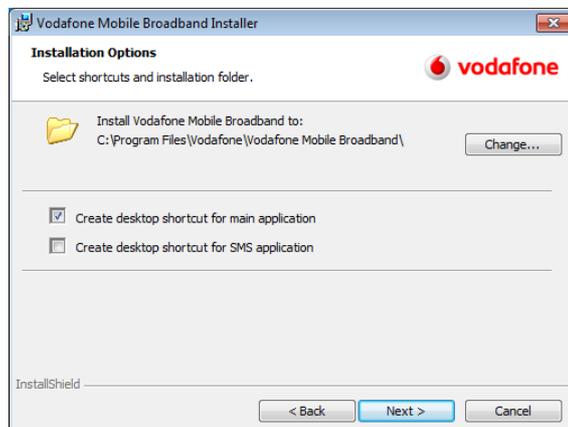
8. Setup Type Window

There are two setup types – 'Standard' installation or 'Custom' installation.



9. Installation Options Window (only Custom Installation)

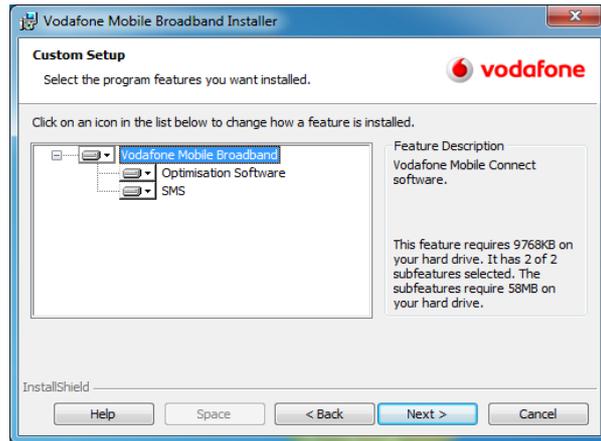
The installation options in this window are the location of the installation folder and whether to create shortcuts for the Vodafone Mobile Broadband application and the Vodafone SMS application on the desktop. This window can be hidden during installation by setting the element 'AskInstallationPath' to 'False' in the <opco>.xml file. The installation folder path and the desktop shortcut option are also controlled by entries in the <opco>.xml file.



Installation of the Vodafone Mobile Broadband application

10. Features Window (only Custom Installation)

Certain features offered by the mobile network operator (OpCo), but not wanted by the user, can be de-selected by the user. This window is customisable by entries in the <opco>.xml file in terms of visibility of the features. Features are 'Optimisation Software' and 'SMS'.



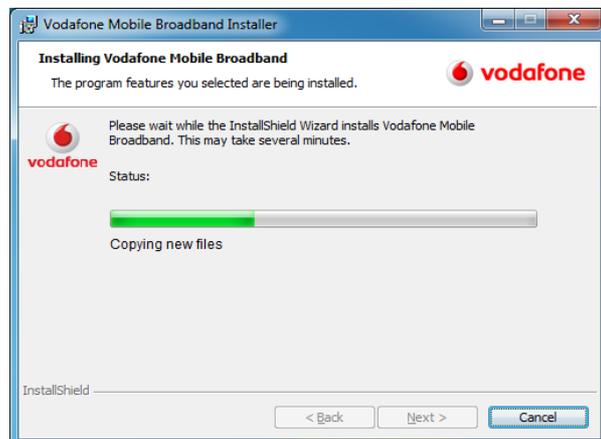
11. Summary Window

The Summary window displays the items chosen in the preceding installation windows. Clicking the 'Install' button starts the installation of the Vodafone Mobile Broadband application on the target computer.



12. Progress Window

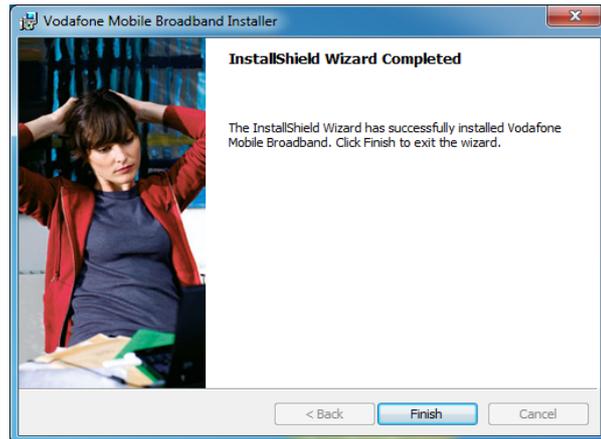
This window informs the user about the status of the current installation by displaying a progress bar and status text.



Installation of the Vodafone Mobile Broadband application

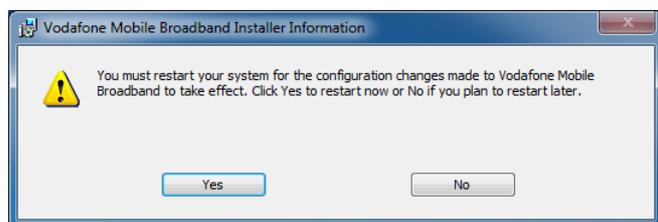
13. Final Window

After a successful installation of the Vodafone Mobile Broadband application, this window will be displayed. Clicking the 'Finish' button exits the installer.



14. Restart Window

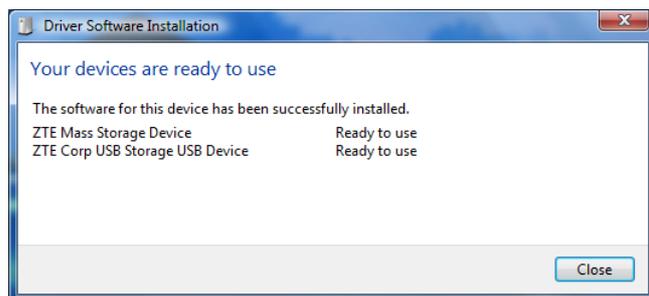
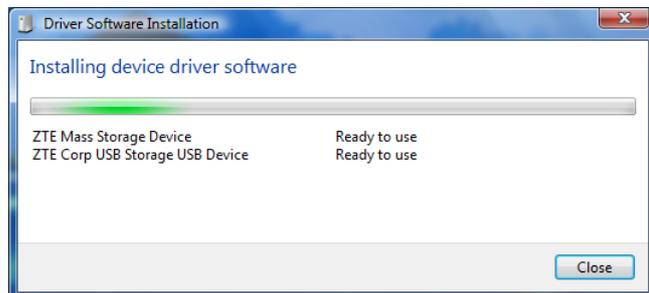
The installation of the ByteMobile Optimiser and TCP/IP Optimisation require a system reboot after the installation, and will cause this window to be displayed. The installation of Microsoft's .Net Framework does not require a reboot.



Installation Sequence of Vodafone Mobile Broadband Lite

1. Mass Storage Driver Installation

After inserting a device with Vodafone Mobile Broadband Lite onboard, Windows will install the mass storage drivers for that device. The progress window shown on the right will be displayed only on Vista and Windows 7; on XP a small number of Notifications will be shown instead.



Installation of the Vodafone Mobile Broadband application

2. Auto Play Window

When AutoPlay is enabled, Windows displays the AutoPlay window.



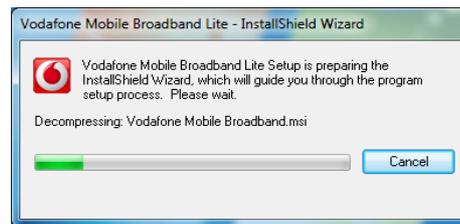
3. Setup Launcher Update Window

Confirmation message shown when the Vodafone Mobile Broadband Lite installer finds a pre-installed variant of Vodafone Mobile Connect 9 that does not support the inserted USB device. The installer notifies the user that the device is not supported by the currently installed version of Vodafone Mobile Broadband, and asks the user to confirm that Lite should be installed instead.



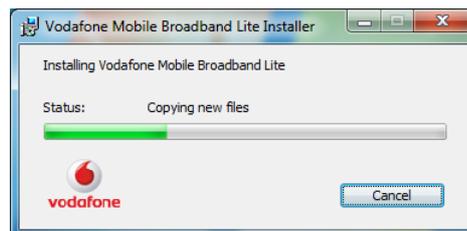
4. Preparation Window

The helper.exe application displays this window while checking the operating system version, together with other system requirements, before installing the Vodafone Mobile Broadband application to the target system.



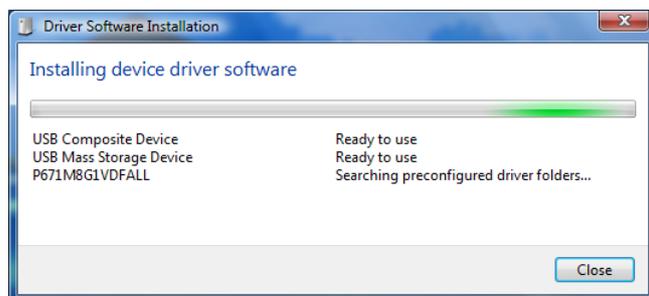
5. Progress Window

This window informs the user about the status of the current installation by displaying a progress bar and status text.

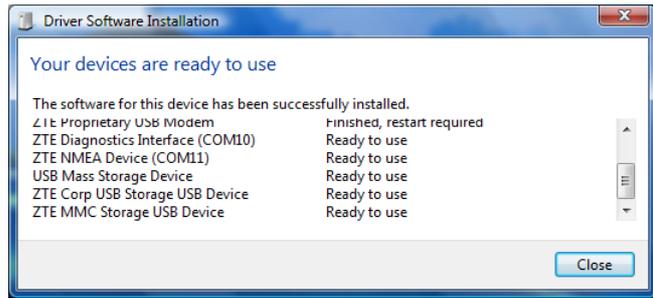


6. Modem Driver Installation

At the end of the installation process, the required modem drivers will be installed onto the system. The progress window shown on the right will be displayed only on Vista and Windows 7; on XP a small number of Notifications will be shown instead.



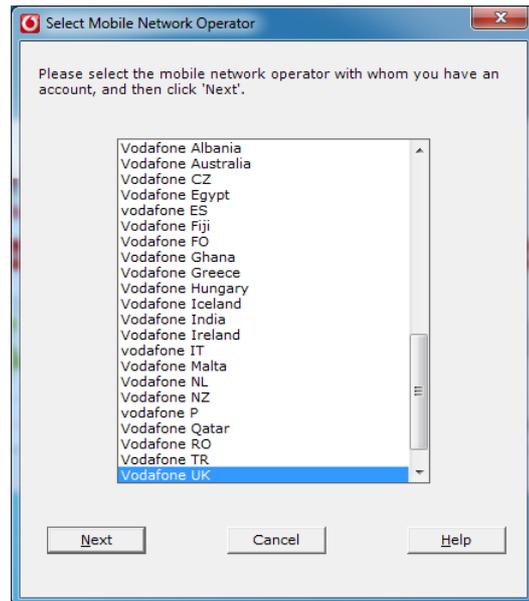
Installation of the Vodafone Mobile Broadband application



7. Vodafone Network (OpCo) Window

This window is the first one that is displayed after the setup_vmb_lite.exe application (setup launcher) has finished successfully. A mobile network operator must be chosen in order to continue with the Vodafone Mobile Broadband Installer.

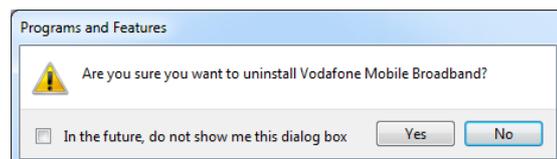
The installer tries to pre-select the mobile network based on the SIM that is inserted in the device. If this fails (for example because no SIM is inserted), the installer tries to detect the mobile network operator from the operating system, and pre-select it in the drop-down menu.



Uninstallation Sequence of Vodafone Mobile Broadband

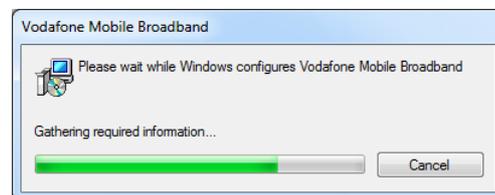
1. Confirmation Window

When uninstalling Vodafone Mobile Broadband, the system presents the user with a confirmation window.



2. Preparation Window

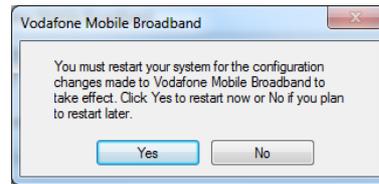
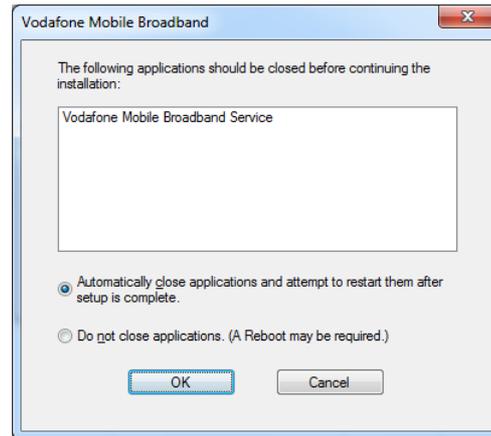
The setup_vmb.exe application displays this window while checking the operating system version, together with other system requirements for installing the Vodafone Mobile Broadband application to the target system.



Installation of the Vodafone Mobile Broadband application

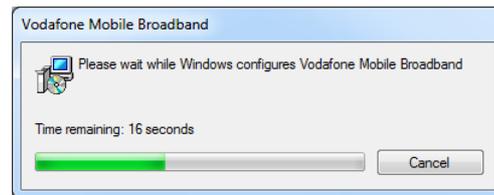
3. Files In Use Window

This window informs the user if the Microsoft uninstallation process detects certain files or components which need to be removed, but are currently being used.



4. Progress Window

This window informs the user about the status of the uninstall process by displaying a progress bar and the remaining time.



Installation of the Vodafone Mobile Broadband application

Installing Devices

After the application has been installed, devices (e.g. data cards or embedded data cards) can be installed. They can be inserted before starting Vodafone Mobile Broadband, or Vodafone Mobile Broadband can be started and the device can be inserted. Also, there is a Windows service which will start Vodafone Mobile Broadband when a device has been plugged in.

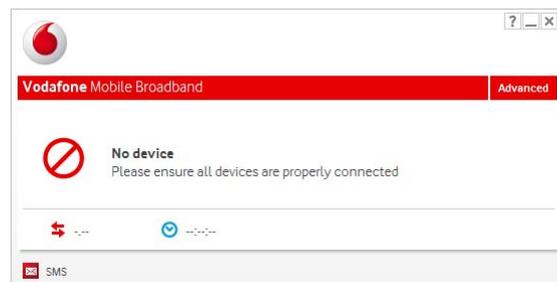
1. Splash Window

The customisable Splash window of the Vodafone Mobile Broadband application.



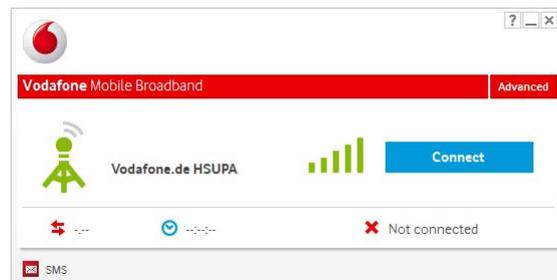
2. Standard Window (no device state)

As well as the Standard window, an additional OpCo-specific Welcome window can be used to inform the user about the Vodafone Mobile Broadband and SMS applications, as well as any other specific features or services that the OpCo wishes to promote.



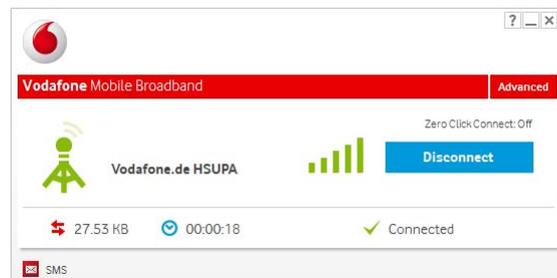
3. Standard Window (not connected state)

The Standard window of the Vodafone Mobile Broadband application is opened and a device has been recognised.



4. Standard Window (connected state)

The Standard window of the Vodafone Mobile Broadband application looks like this when a connection is open.



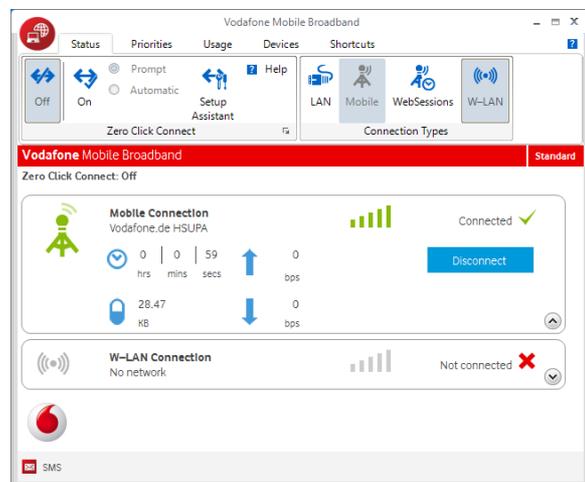
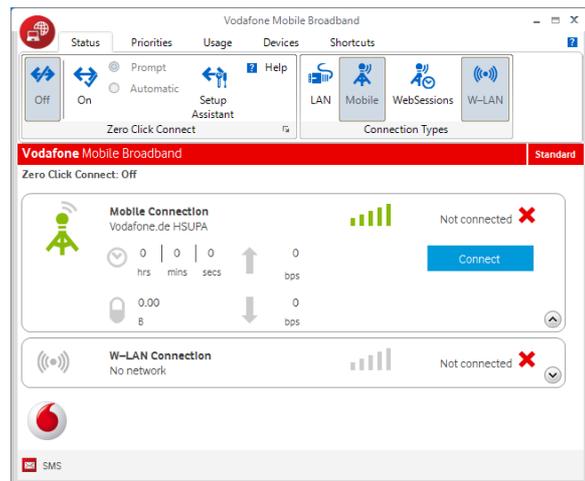
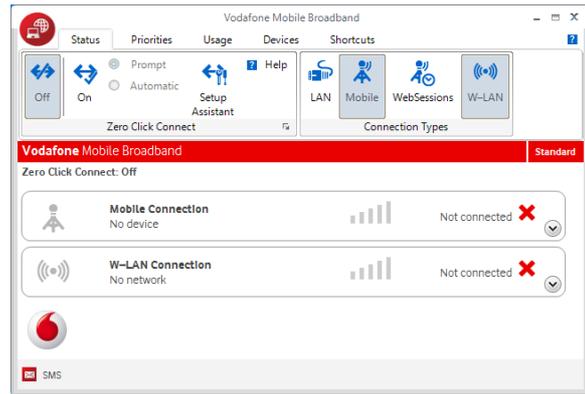
Installation of the Vodafone Mobile Broadband application

5. Advanced Window

The Advanced window of the Vodafone Mobile Broadband application.

From top to bottom:

- No device state
- Not connected state
- Connected state.



Installation and Customisation from Command Line

Introduction

The msiexec.exe Microsoft Windows Installer installs products and related components that have been included in an installation database file with the suffix .msi (also called an 'installation package') onto the target system. Every Windows Installer .msi database can be installed from the command line.

The setup_vmb.exe Setup Launcher, created using Flexera's InstallShield software, checks software requirements, like the Microsoft Installer. It presents a language window in which the language for the installation windows can be selected, as well as the language to be used by the product once it is installed. This application can also be executed from the command line.

Using the command line and parameters is useful for performing silent or unattended installations.

Note

The software requirements are only checked when the setup_vmb.exe Setup Launcher is used for a silent or unattended installation. The msiexec.exe Windows Installer should only be used directly if the target system fulfils the software requirements.

Example

The following command line example installs the Vodafone Mobile Broadband software silently, for the Vodafone UK network. The chosen language is German.

```
Msiexec.exe /I "Vodafone Mobile Broadband.msi" TRANSFORMS="1031.mst"  
OPCO_PROP="23415" /qn
```

Command Line Options for the msiexec.exe Installer

The following options are available. For a complete list of options see the Microsoft Developer Network:

[http://msdn.microsoft.com/en-us/library/aa367988\(VS.85\).aspx](http://msdn.microsoft.com/en-us/library/aa367988(VS.85).aspx)

[http://msdn.microsoft.com/en-us/library/aa372024\(VS.85\).aspx](http://msdn.microsoft.com/en-us/library/aa372024(VS.85).aspx)

Parameter	Values	Description
/i	Package Product Code	Installs or configures a product.
/x	Package Product Code	Removes a product.
/a	Package Product Code	Administrative Installation.
/l	[ilw e a r u c m p v +!]Logfile	Specifies the log file path and indicates the flags to be logged.

Installation and Customisation from Command Line

		<p>i - Status messages</p> <p>w – Non-fatal warnings</p> <p>e - All error messages</p> <p>a - Startup of actions</p> <p>r - Action-specific records</p> <p>u - User requests</p> <p>c - Initial UI parameters</p> <p>m - Out-of-memory or fatal exit information</p> <p>o - Out-of-disk-space messages</p> <p>p - Terminal properties</p> <p>v - Verbose output</p> <p>x - Extra de-bugging information</p> <p>+ - Append to existing log file</p> <p>! - Flush each line to the log</p> <p>* - Log all information, except for v and x options.</p>
<i>/q</i>	nlblrf	<p>Sets user interface level</p> <p>n - No UI at all - 'silent install'</p> <p>b - Basic UI - small progress bars displayed, but not interactive</p> <p>r - Reduced UI - standard windows displayed to report progress, but not interactive</p> <p>f - Full UI (default) - fully interactive</p>
<i>/norestart</i>		Do not restart and do not show message box for restart request.
<i>TRANSFORMS</i>	<filename>.mst	Comma-separated list of Transform files.
<i>ADVERTISE</i>	list of features delimited by commas	To advertise a feature, use ADVERTISE=<feature> on the command line. Features are SMS, or ByteMobile.
<i>ADDLOCAL</i>	list of features delimited by commas, or ALL	To install a feature, use ADDLOCAL=<feature> on the command line. Features are SMS, or ByteMobile.

Installation and Customisation from Command Line

<i>REMOVE</i>	list of features delimited by commas	To not install certain features, use REMOVE=<feature> on the command line. Features are SMS, or ByteMobile.
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Command Line Options for the VMB Application

The following options are available:

Parameter	Values	Description
<i>OPCO_PROP</i>	String	Determines the operator network to be installed, e.g. 23415 for Vodafone UK, or 26202 for Vodafone.de.
<i>OPCOCONFIG_SMS</i>	true (Default) false	Should the SMS feature be installed?
<i>OPCOCONFIG_OPTIMISERCLIENT</i>	None ByteMobile (Default)	Should the optimiser application be installed, and which one?
<i>CREATEDTSHORTCUTS</i>	0 1 (default)	Create desktop shortcuts (Yes=1, No=0)? (no longer supported with 10.2.304 and later)
<i>VMBDS</i>	0 1 (default)	Value 0 means do not create desktop shortcut for mobilebroadband.exe Value 1 means do create desktop shortcut for mobilebroadband.exe (replacing parameter CREATEDTSHORTCUTS starting with 10.2.304 and later)
<i>SMSDS</i>	0 (default) 1	Value 0 means do not create desktop shortcut for sms.exe Value 1 means do create desktop shortcut for sms.exe
<i>REPORTING_PROP</i>	on (default) off	Should the reporting be enabled?

Installation and Customisation from Command Line

<i>NETWORKRBGROUP_PROP</i>	1 (default) 2	Should TCP/IP settings be optimized (Yes=1, No=2)?
<i>INSTALLDIR</i>	path string	Installation folder. Only if the <InstallationPath> element in the mobile network operator settings XML file is empty.
<i>ROUTETOMARKET</i>	string	Internal identifier for marketing to show how the installed product was delivered, e.g. download, CD etc. (default="1")
<i>USEDEFAULTLANGUAGE</i>	boolean	Should the system language be used for the Vodafone Mobile Broadband application? The default for GUI-based installations is 'False', whereas the default for silent installations is 'True'.
<i>OEMID</i>	string	OEM identifier.
<i>LOCKUPDATING</i>	boolean (default=false)	Locks the application update settings.
<i>LOCKUSAGE</i>	boolean (default=false)	Locks the usage settings.
<i>LOCKINGCODE</i>	string (default="")	Defines a locking code for the Lock Settings window before installation.
<i>SIMACTIVATIONCHECK</i>	boolean (default=true)	Allows SIM activation check.
<i>UPDATEINTERVAL</i>	weekly (default), monthly, daily, never	The time after which the application should check for updates.

Example

The following example installs the Vodafone Mobile Broadband application silently for the Vodafone UK network. The chosen language is German. The difference to the setup_vmb.exe Setup Launcher example above is that the msixexec.exe installer does not check the application requirements. For this reason it is recommended to use setup_vmb.exe Setup Launcher when performing a silent or unattended installation.

```
setup_vmb.exe /s /L1031 /v"OPCO_PROP=23415 /qn"
```

Installation and Customisation from Command Line

Command Line Options for the Setup Launcher setup_vmb.exe

The following options are available. For a complete list of options please also see the Flexera InstallShield's website:

http://kb.flexerasoftware.com/doc/Helpnet/installshield12helplib/IHelpSetup_EXECmdLine.htm

Parameter	Values	Description
<code>/v</code>	string	Passing options to the .msi file. Please note the command line option for msiexec.exe above.
<code>/s</code>		Run setup_vmb.exe silently.
<code>/L</code>	string	Language identifier (decimal string), e.g. 2057 for English (United Kingdom), or 1031 for German (Germany).
<code>/a</code>		Administrative installation.

The command line options for the msiexec.exe Windows Installer can also be applied by editing the CmdLine key in the section [Startup] of the file setup.ini.

Example

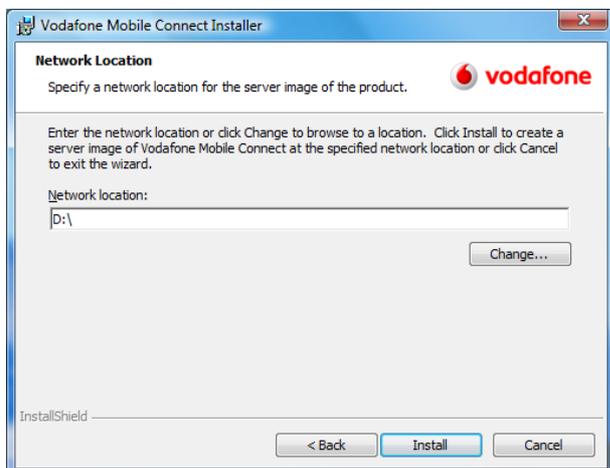
This example demonstrates an administrative install by creating a server image of Vodafone Mobile Broadband at a specified network location with either a silent install or an install with a UI.

Silent installation, network location is specified by TARGETDIR, e.g. TEMP folder:

```
setup_vmb.exe /a /s /v"TARGETDIR=\"%TEMP%\\" /qb"
```

GUI installation, network location is specified by a user selection in the following selection window

```
setup_vmb.exe /a
```



Installation and Customisation from Command Line

Examples for silent installations

The following are the most important command line options of the setup_vmb.exe Setup Launcher.

Description	Example	Remarks
<i>Silent</i>	<code>/s /v"/qn"</code>	The switch /s controls the setup launcher and the switch /qn is passed from the setup launcher to the installer.
<i>Silent, and no restart</i>	<code>/s /v"/qn /norestart"</code>	The switch /norestart ignores any re-start request.
<i>Silent, no restart, and logging</i>	<code>/s /v"/l*v c:\temp\vmblog.txt /qn /norestart"</code>	The switch /l*v sets the log level of the installer to the maximum.
<i>Silent, no restart, logging, and mobile network operator (OPCO)</i>	<code>/s /v"OPCO_PROP=23415 /l*v c:\temp\vmblog.txt /qn /norestart"</code>	For a list of mobile network operator codes, see the FAQ section.
<i>Silent, no restart, logging, mobile network operator (OPCO), and language</i>	<code>/s /L2057 /v"OPCO_PROP=23415 /l*v c:\temp\vmblog.txt /qn /norestart"</code>	For a list of language codes, decimal and hexadecimal, see the FAQ section.

A. Network operator (Opco) not known

1. In this example the Opco and language are unknown at installation time, and the ByteMobile optimisation feature will be installed only when required (it will be 'advertised'). The first Opco that is detected determines the Optimiser. If a different Optimiser is subsequently required, the Vodafone Mobile Broadband application must be re-installed. Also in this example, no SIM is available at installation time, the installer logs will be saved to c:\vmblog.txt, the system will not be restarted automatically, and the installation is silent.

```
setup_vmb.exe /s /v"ADDLOCAL=ALL ADVERTISE=ByteMobile /l*v c:\vmblog.txt /qn /norestart"
```

2. The difference to the first example above is that ByteMobile will not be installed onto the system. This is achieved by setting the REMOVE parameter in the command line, ie. REMOVE=ByteMobile.

```
setup_vmb.exe /s /v"ADDLOCAL=ALL REMOVE=ByteMobile /l*v c:\vmblog.txt /qn /norestart"
```

3. The difference to the second example above is that the run-time language will be Greek. This is achieved by setting the options /L, and USEDEFAULTLANGUAGE in the command line, ie. /L1032, and USEDEFAULTLANGUAGE=false.

Installation and Customisation from Command Line

```
setup_vmb.exe /s /L1032 /v"ADDLOCAL=ALL ADVERTISE=ByteMobile  
USEDEFAULTLANGUAGE=false /l*v c:\vmblog.txt /qn /norestart"
```

B. Network operator (OpCo) known

1. In this example, the OpCo (OPCO_PROP=23415) and language (/L2057) are known at installation time, the Vodafone Mobile Broadband application will not use the operating system language (USEDEFAULTLANGUAGE=false), no SIM will be available for an embedded device, and the installer logfiles will be saved to c:\vmblog.txt. The system will not be restarted automatically after this silent installation.

```
setup_vmb.exe /s /L2057 /v"OPCO_PROP=23415 USEDEFAULTLANGUAGE=false /l*v  
c:\vmblog.txt /qn /norestart"
```

2. The difference to the first example above is that ByteMobile will not be installed onto the system. This is achieved by setting the REMOVE parameter in the command line, i.e. REMOVE=ByteMobile.

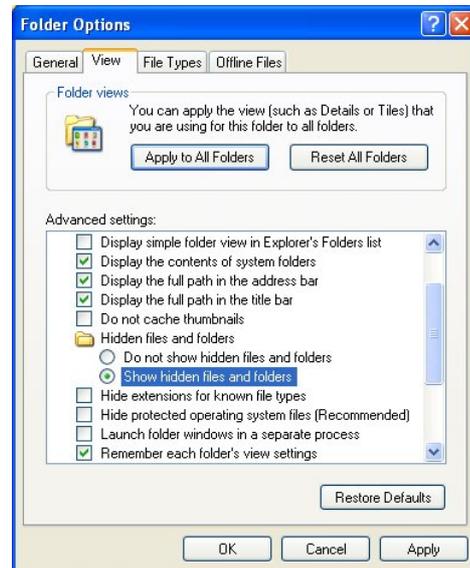
```
setup_vmb.exe /s /L2057 /v"OPCO_PROP=23415 USEDEFAULTLANGUAGE=false  
REMOVE=ByteMobile /l*v c:\vmblog.txt /qn /norestart"
```

Frequently Asked Questions (FAQ)

How to display hidden files and folders in Windows explorer

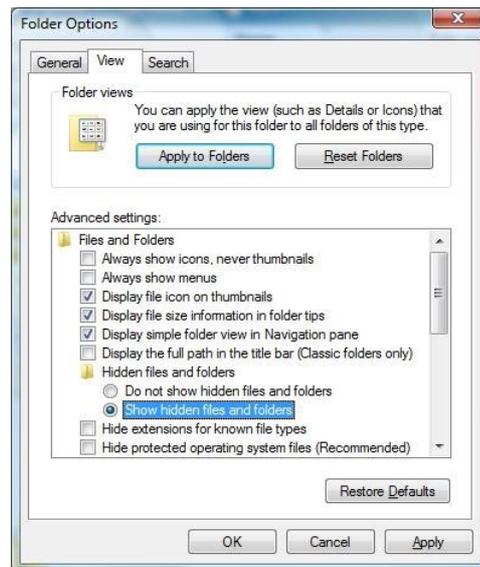
Windows XP

1. Open Explorer.
2. From the Tools menu, select 'Folder Options... '.
3. Click on the 'View' tab.
4. Check 'Show hidden files and folders' in the list of advanced settings.
5. Click on the 'Apply' button and if desired click on the 'Apply to All Folders' button.



Windows Vista and Windows 7

1. Open Explorer.
2. From the Organize menu, select 'Folder and Search Options'.
3. Click on the 'View' tab.
4. Check 'Show hidden files and folders' in the list of advanced settings.
5. Click on the 'Apply' button and if desired click on the 'Apply to Folders' button.



In which folder are the VMB files that were created at run-time?

The location of <vmb folder> depends on the operating system. This folder will be referenced below several times.

Operating system	System folder
<i>Windows XP</i>	<drive>:\Documents and Settings\ <username>\Application Data</username>
<i>Windows Vista Windows 7</i>	<drive>:\Users\ <username>\AppData\Roaming</username>

How to create Windows Installer log files

Windows Installer logging can be enabled for a single installation with a command line parameter. Alternatively, logging can be enabled for all installations on the same computer by setting a registry key.

1. There is a command line option for the Windows Installer `msiexec.exe`. This option can be set in the command line or in the file `setup.ini`. The syntax of the option is

```
/l<option> <filename>
```

Example

This example creates a file named `vmb10install.log` in the folder `c:\tmp` using the option `*v` to include all possible information.

```
/l*v c:\tmp\vmb10install.log
```

The parameter can also be used for `setup_vmb.exe`, in which case the command line parameters have to be entered differently. The following example for `setup_vmb.exe` creates a setup log file on partition D: before starting the installation:

```
setup_vmb.exe /v"/L*v d:\vmb10install.log"
```

2. The value data "voicewarmupx" in `HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\Installer` creates logging files (`MSIxxxx.LOG`, e.g. `MSIc3509.LOG`) for all installations performed on the computer in the `TEMP` folder of the current user account. The value data "7" creates additional debug information.

Value Name	Value Type	Value Data	Description
<i>Logging</i>	REG_SZ	voicewarmupx	Enables logging.
<i>Debug</i>	REG_DWORD	7	Additional debug information.

Which items remain on the system after removing VMB 10?

In general, all data created at run-time will remain on the system. For instance, after removing the Vodafone Mobile Broadband application, all folders and files in the following folders remain on the computer.

Folder
<i>%AppData%\Vodafone\Vodafone Mobile Broadband</i>
<i>C:\Documents and Settings\All Users\Application Data\Vodafone</i>

After removing the Vodafone Mobile Broadband application, the following registry key remains on the computer.

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Registry key

HKEY_CURRENT_USER\Software\Vodafone

Certain Update Manager files will remain on the computer after uninstallation. This is expected behaviour. The components that install these files are marked as permanent and so will not be removed. Also, related registry database keys are not removed from the computer. Usually there is no problem with leaving the Update Manager files on any given computer. There are typically multiple applications that are using the update service on a given computer, so forcing the removal of these components would not be a good way to proceed.

Folder

%ProgramFiles%\Common Files\InstallShield\UpdateService

Where are the user data files?

All user data files created at run-time and used by Vodafone Mobile Broadband are located in **<vmc folder>\Vodafone\Vodafone Mobile Broadband\UserData**.

Which Registry values are used by VMB10?

The following values in HKEY_LOCAL_MACHINE\Software\Vodafone\Common are used by the Vodafone Mobile Broadband application.

Value Name	Value Type	Value Data	Description
<i>VF_LANG</i>	REG_SZ	string	Installed language, e.g. 0x0809 for English, or 0x0407 for German
<i>VF_OEMID</i>	REG_SZ	string	OEM identifier.
<i>VF_PLMN</i>	REG_SZ	string	Installed OPCO code, e.g. 23415 for Vodafone UK, or 26202 for Vodafone.de.
<i>VF_PROD</i>	REG_SZ	VMC R9	Vodafone Mobile Broadband product identifier.
<i>VF_VENDID</i>	REG_SZ	AllVendors, Huawei, Novatel, Option, ZTE	Vodafone Mobile Broadband product identifier.

The following values in HKEY_LOCAL_MACHINE\Software\Vodafone\VMB are used by the Vodafone Mobile Broadband application.

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Value Name	Value Type	Value Data	Description
<i>AcceptedEULA</i>	REG_SZ	true, false	EULA pre-accepted?
<i>BuildVersion</i>	REG_SZ	<n>.<n>.<n>.<n>	Version string identifier.
<i>ByteMobileIcon</i>	REG_SZ	true, false (default)	System-tray icon for debugging purposes. Can be set to 'true' manually if requested.
<i>ConflictingApps</i>	REG_SZ	SilentAndPrompt SilentAndPromptOnce SilentAndAutomatic SilentAndAutomaticOnce Automatic Manual ManualWLANOnly ManualWWANOnly ManualForFirstRun (def.) DisabledCannotBeEnabled DisabledCanBeEnabled	Parameter for controlling conflicting application management.
<i>ConflictManagerType</i>	REG_SZ	Process (default), Service	Type of Conflicting Application.
<i>CustomerAccount</i>	REG_SZ	contract (default), prepay	Type of customer account.
<i>DriverDirectory</i>	REG_SZ	<installdir>\Driver	Location of the driver files.
<i>DriverInstall</i>	REG_SZ	yes (default), no	Install any drivers?
<i>DriverType</i>	REG_SZ	all (default), huawei, novatel, option, zte	Which drivers should be installed? Only one single choice is possible.
<i>FirstRunWizard</i>	REG_SZ	boolean	Controls the first-run wizard.
<i>InstallDateTime</i>	REG_SZ	string	Installation time stamp.
<i>LockUpdating</i>	REG_SZ	boolean	Locks the update settings so it cannot be used.

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<i>LockUsage</i>	REG_SZ	boolean	Locks the usage settings window so the settings cannot be changed.
<i>MaintainSettings</i>	REG_SZ	boolean	Preserve settings when an upgrade or update is performed on top of an existing version.
<i>OEMDetermined</i>	REG_SZ	string	Indicates how the OEM value was created. Possible values: Automatic Manual
<i>OptimizerClient</i>	REG_SZ	None, ByteMobile	Installed optimiser application.
<i>Reporting</i>	REG_SZ	on, off	Enable or disable reporting.
<i>ReportingInfoType</i>	REG_SZ	string	Internal identifier.
<i>ReportingUrl</i>	REG_SZ	http(s)-string	Internal identifier.
<i>RouteToMarket</i>	REG_SZ	string	Identifier (default="1").
<i>SetupDirectory</i>	REG_SZ	<installdir>	Location of the installation folder.
<i>SimActivationCheck</i>	REG_SZ	boolean	Allows SIM activation check.
<i>TCPIPSettings</i>	REG_SZ	1, 2	Indicates whether TCP/IP settings are performed or not. The value "1" means that the performance keys have been set, "2" means no change.
<i>Updating</i>	REG_SZ	weekly (default), monthly, daily, never	Time interval at which the application checks for updates.
<i>UseDefaultLanguage</i>	REG_SZ	boolean	Use the operating system language for the Vodafone Mobile Broadband application. The default for GUI based installations is

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			false whereas the default for silent installations is true.
<i>VF_COUNTRY</i>	REG_SZ	string	Installed OPCO country, e.g. United Kingdom, or Germany.
<i>VF_PROD</i>	REG_SZ	VMB	Internal identifier.
<i>VF_PROD_PACKAGE</i>	REG_SZ	Professional, Lite	Internal identifier.
<i>VodafonePackageCode</i>	REG_SZ	GUID	MSI package code.
<i>VodafoneProductCode</i>	REG_SZ	GUID	MSI product code.
<i>VodafoneUpdateServer</i>	REG_SZ	url	URL of the Vodafone update server.

The following keys in HKEY_LOCAL_MACHINE\SOFTWARE\Vodafone\Common\Installed Features are used by the Vodafone Mobile Broadband application. If a key exists, the feature is currently installed. The value data has no meaning.

Value Name	Value Type	Value Data	Description
<i>ByteMobile</i>	REG_SZ	1	ByteMobile is installed.
<i>VodafoneSMS</i>	REG_SZ	1	VodafoneSMS is installed.

The following keys are used by the Vodafone Mobile Broadband application. These keys have no values.

Registry key
<i>HKEY_LOCAL_MACHINE\SOFTWARE\Vodafone\WwanSdk</i>
<i>HKEY_CURRENT_USER\SOFTWARE\Vodafone\WwanSdk</i>

The following values in HKEY_CURRENT_USER\Software\Vodafone are used by the Vodafone Mobile Broadband application.

Value Name	Value Type	Value Data	Description
<i>ConfAppsModeStatus</i>	REG_SZ	SilentAndPrompt SilentAndPromptOnce	Parameters for controlling conflicting application

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		SilentAndAutomatic SilentAndAutomaticOnce Automatic Manual ManualWLANOnly ManualWWANOnly ManualForFirstRun DisabledCannotBeEnabled DisabledCanBeEnabled	management.
<i>ConfAppsProfileVersion</i>	REG_SZ	string	Conflicting applications profile version string.
<i>LockingCode</i>	REG_SZ	string	Locking code.
<i>OemDetermined</i>	REG_SZ	string	Automatic or manually set.
<i>ReportingCurrentToSendNumber</i>	REG_SZ	string	Reporting info data.
<i>ReportingLastSentNumber</i>	REG_SZ	string	Reporting info data.
<i>ReportingSent</i>	REG_SZ	string	Reporting info data.
<i>SetupTime</i>	REG_SZ	string	Installation time stamp.
<i>VF_COUNTRY</i>	REG_SZ	string	Installed OPCO country, e.g. United Kingdom, or Germany.
<i>VF_OEMID</i>	REG_SZ	string	OEM identifier.
<i>VF_PLMN</i>	REG_SZ	string	Installed OPCO code, e.g. 23415 for Vodafone UK, or 26202 for Vodafone.de.

Which network identifiers are used by VMB10?

The following list of network identifiers is used by Vodafone Mobile Broadband 10.

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Mobile Network Operator	Network Identifier	Country
<i>A1</i>	23201	Austria
<i>Airtel-Vodafone</i>	23403	New Jersey
<i>Azerfon</i>	40004	Azerbaijan
<i>Bite Latvija</i>	24705	Latvia
<i>Bite Lietuva</i>	24602	Lithuania
<i>Celcom Malaysia</i>	50219	Malaysia
<i>Chunghwa</i>	46692	Taiwan
<i>Cytmobile-Vodafone</i>	28001	Cyprus
<i>DIALOG</i>	41302	Sri Lanka
<i>du</i>	42403	Dubai
<i>Elisa</i>	24405	Finland
<i>Elisa Estonia</i>	24802	Estonia
<i>Entel PCS</i>	73001	Chile
<i>MobileOne</i>	52503	Singapore
<i>M-Tel BG</i>	28401	Bulgaria
<i>Proximus</i>	20601	Belgium
<i>SFR</i>	20810	France
<i>Si.mobil</i>	29340	Slovenia
<i>SmarTone-Vodafone</i>	45406	Hong Kong
<i>SRR</i>	67410	Reunion
<i>Swisscom</i>	22801	Switzerland
<i>Tango</i>	27077	Luxembourg
<i>TDC Denmark</i>	23801	Denmark
<i>TDC Norway</i>	2380171	Norway
<i>TDC Sweden</i>	2380172	Sweden
<i>Vip operator</i>	29403	Macedonia

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<i>Vipnet</i>	21910	Croatia
<i>Vodacom</i>	65501	South Africa
<i>Vodacom Congo</i>	63001	Congo (DRC)
<i>Vodacom Lesotho</i>	65101	Lesotho
<i>Vodacom Mozambique</i>	64304	Mozambique
<i>Vodacom Tanzania</i>	64004	Tanzania
<i>Vodafone Albania</i>	27602	Albania
<i>Vodafone Australia</i>	50503	Australia
<i>Vodafone CZ</i>	23003	Czech Republic
<i>Vodafone Egypt</i>	60202	Egypt
<i>Vodafone ES</i>	21401	Spain
<i>Vodafone Fiji</i>	54201	Fiji
<i>Vodafone FO</i>	28802	Faroe Islands
<i>Vodafone Ghana</i>	62002	Ghana
<i>Vodafone Greece</i>	20205	Greece
<i>Vodafone Hungary</i>	21670	Hungary
<i>Vodafone Iceland</i>	27401	Iceland
<i>Vodafone IE</i>	27201	Ireland
<i>Vodafone India</i>	404	India
<i>Vodafone IT</i>	22210	Italy
<i>Vodafone Malta</i>	27801	Malta
<i>Vodafone NL</i>	20404	Netherlands
<i>Vodafone NZ</i>	53001	New Zealand
<i>vodafone P</i>	26801	Portugal
<i>Vodafone Qatar</i>	42702	Qatar
<i>Vodafone RO</i>	22601	Romania
<i>Vodafone TR</i>	28602	Turkey

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Vodafone UK	23415	United Kingdom
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Which language identifier codes are used by VMB 10?

The following language identifier codes are used by Vodafone Mobile Broadband 10.

Language (Country)	Decimal Code	Hexadecimal Code	String Code
<i>Arabic (Egypt)</i>	3073	0x0c01	ar-EG
<i>Azeri (Azerbaijan)</i>	1068	0x042c	Az-Latn-AZ
<i>Bulgarian (Bulgaria)</i>	1026	0x0402	bg-BG
<i>Chinese (Hong Kong)</i>	3076	0x0c04	zh-HK
<i>Chinese (Taiwan)</i>	1028	0x0404	zh-TW
<i>Croatian (Croatia)</i>	1050	0x041a	hr-HR
<i>Czech (Czech Republic)</i>	1029	0x0405	cs-CZ
<i>Danish (Denmark)</i>	1030	0x0406	da-DK
<i>Dutch (Belgium)</i>	2067	0x0813	nl-BE
<i>Dutch (Netherlands)</i>	1043	0x0413	nl-NL
<i>English (United Kingdom)</i>	2057	0x0809	en-GB
<i>Estonian (Estonia)</i>	1061	0x0425	et-EE
<i>Finnish (Finland)</i>	1035	0x040b	fi-FI
<i>French (Belgium)</i>	2060	0x080c	fr-BE
<i>French (France)</i>	1036	0x040c	fr-FR
<i>German (Germany)</i>	1031	0x0407	de-DE
<i>Greek (Greece)</i>	1032	0x0408	el-GR
<i>Hungarian (Hungary)</i>	1038	0x040e	hu-HU
<i>Italian (Italy)</i>	1040	0x0410	it-IT
<i>Latvian (Latvia)</i>	1062	0x0426	lv-LV
<i>Lithuanian (Lithuania)</i>	1063	0x0427	lt-LT
<i>Norwegian (Norway)</i>	1044	0x0414	nb-NO
<i>Portuguese (Portugal)</i>	2070	0x0816	pt-PT

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<i>Romanian (Romania)</i>	1048	0x0418	ro-RO
<i>Russian (Russia)</i>	1049	0x0419	ru-RU
<i>Slovenian (Slovenia)</i>	1060	0x0424	sl-SI
<i>Spanish (Spain)</i>	1034	0x040a	es-ES
<i>Swedish (Sweden)</i>	1053	0x041d	sv-SE
<i>Turkish (Turkey)</i>	1055	0x041f	tr-TR

How to add applications to the Shortcuts Bar

Up to 10 shortcuts to applications can be added to the Shortcuts Bar at the bottom of the Standard and Advanced windows. Further shortcuts can be defined in the Shortcuts view, but only 10 can be displayed at any time. The presence of the SMS and VPN shortcuts is dependent on the currently selected OpCo, or in some cases, the current device. When present, these two shortcuts can be hidden, but not deleted. A Transform can be used to change the MSI database to replace the modified <opco>.xml mobile network operator file, for instance to create additional applications to the Shortcuts Bar.

How to install the .Net Framework 2.0 silently

There is an option in the setup.ini file that controls the silent installation of the .Net Framework, when using the setup_vmb.exe launcher. If .Net installation should be performed silently, the key DotNetOptionalInstallIfSilent has to be set to Y.

File setup.ini
<i>[Startup]</i> <i>DotNetOptionalInstallIfSilent=N</i>

Which devices are supported by VMB 10?

For a list of supported devices, please see the Vodafone Mobile Broadband ReadMe file for the Release you are going to install.

TCP/IP tuning parameters for Windows XP

Several TCP/IP optimisation parameters under HKLM\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters will be set on the target computer during the installation of the Vodafone Mobile Broadband application, if enabled in the

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OPCO.xml file. A description of these parameters can be found on the Microsoft website. The parameters are:

TcpWindowSize:

Determines the largest TCP receive window that the system offers for a particular connection.

GlobalMaxTcpWindowSize:

Determines the largest TCP receive window that the system offers for all connections.

TCP1323Opts:

Determines whether TCP uses the time-stamping and window-scaling features described in RFC 1323.

TcpMaxConnectRetransmissions:

Determines how many times TCP re-transmits an unanswered request for a new connection.

The values that the Vodafone Mobile Broadband application will use for the parameters can be found in the chapter 'Embedded Customisation using Network Operator file'.

Note

Settings changed by this installer will not be restored when the Vodafone Mobile Broadband application is uninstalled.

Further Information

The Vodafone Business homepage contains applications and documentation for all Vodafone data products.

- Vodafone Mobile Broadband application downloads
- Data card firmware downloads
- VPN documentation
- FAQ
- How-to guides
- Etc...

<http://support.vodafone.com>
