

**Standard Install Guide:  
Vodafone Mobile Broadband**



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## 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_vmb.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>		✓

Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

## **Installation of the Vodafone Mobile Broadband application**

### **Introduction**

This document is based on version 11.2 of the Vodafone Mobile Broadband application (VMB 11). The installation of VMB 11 requires certain Microsoft software to be installed on the target computer. This software will be installed from the VMB 11 application media, e.g. a VMB 11 CD, if it is not already present. The VMB 11 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 two variants:

- The 'Compressed' variant comprises several components/files of VMB.
- 'Express' refers to the download variant and hence is provided as a single file. It contains all identical components of the 'Compressed' variant in a self-extractable and self-installable single file created with Microsoft's tool IExpress.exe. Technically, it is an additional container of the 'Compressed' variant.

### **.NET Framework**

The .NET Framework 4.5.1 is part of the Windows 10 operating system, and it is installed by default.

If .Net Framework 4.5.1 is not installed it will be downloaded during the installation of VMB. When downloading the .Net Framework 4.5.1 during the installation of VMB an internet connection is needed.

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

### **Installing the Vodafone Mobile Broadband application manually**

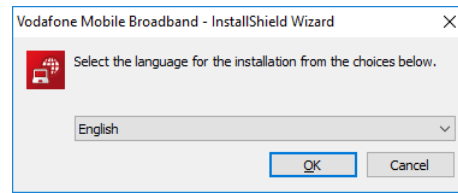
Start the file setup.exe (iexpress variant) or setup\_vmb.exe (compressed variant) and follow the instructions in the windows presented by the installation process.

Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

## Installation Sequence of Vodafone Mobile Broadband

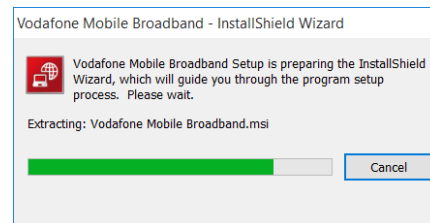
### 1. Language Window

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 11 application as well. All supported languages are listed in the Vodafone Mobile Broadband ReadMe.



### 2. Preparation Window

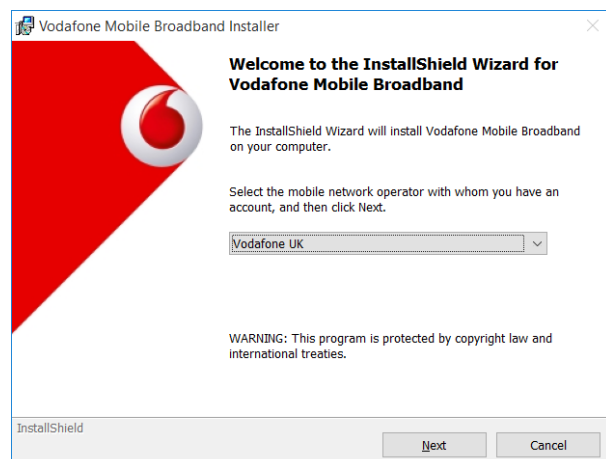
The setup application displays this window while checking the operating system version, as well as other system requirements, before installing the Vodafone Mobile Broadband application to the target system.



### 3. Vodafone Network (OpCo) Window

This window is the first one which will be displayed after the setup application (setup launcher) has started 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.

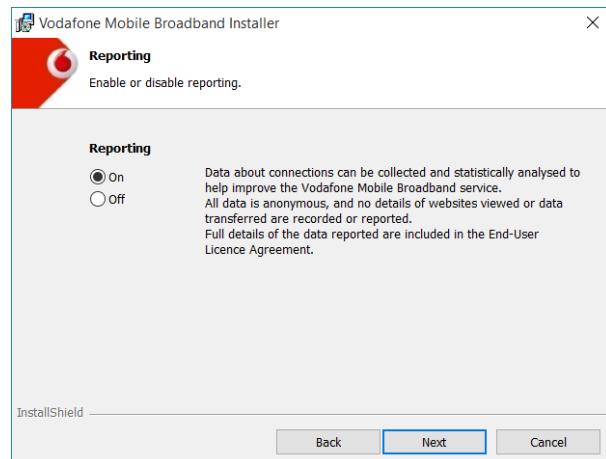
The installation tries to detect the mobile network operator from the operating system using a heuristic algorithm, and pre-select it in the drop-down menu. Otherwise the default text 'Please select your network operator...' will be displayed. All supported network operators are listed in the Vodafone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



Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

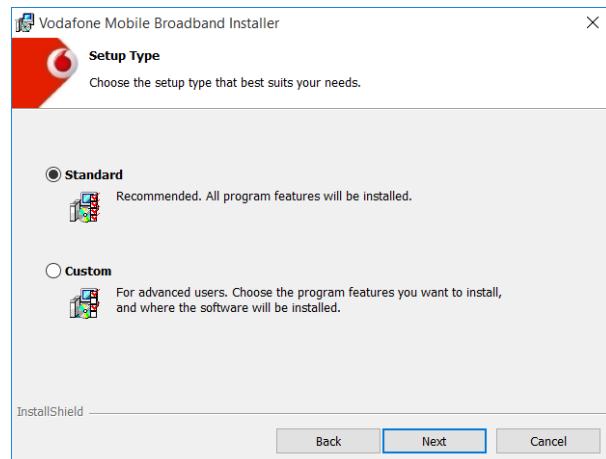
#### 4. Reporting Window

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.



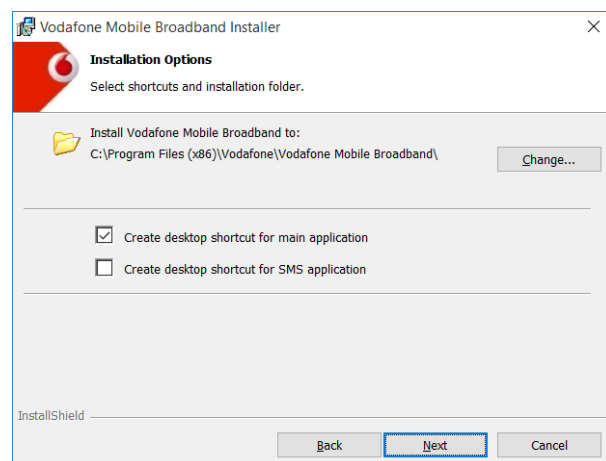
#### 5. Setup Type Window

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



#### 6. Installation Options Window (only Custom Installation)

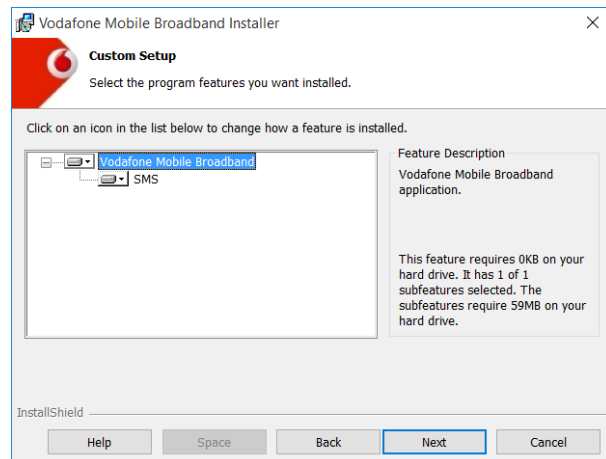
The installation options in this window are the location of the installation folder and whether to create shortcuts for the Vodafone Mobile Broadband application and the Vodafone SMS application on the desktop. This window can be hidden during installation by setting the element 'AskInstallationPath' 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.



Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

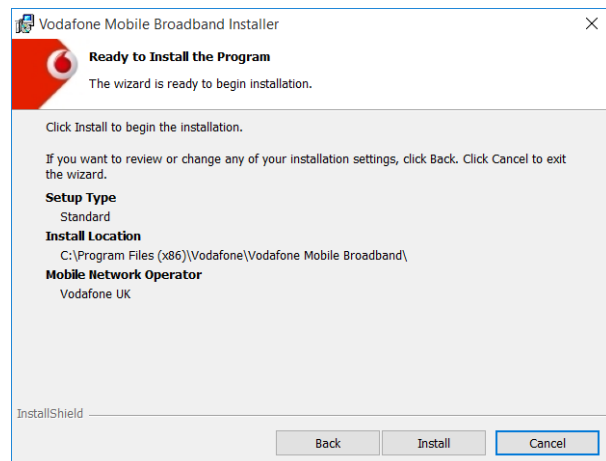
### 7. Features Window (only Custom Installation)

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' (not supported for version 10.3.409 and greater) and 'SMS'.



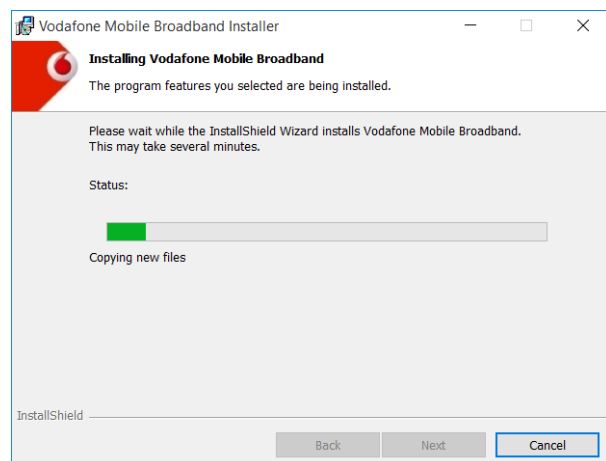
### 8. Summary Window

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.



### 9. Progress Window

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

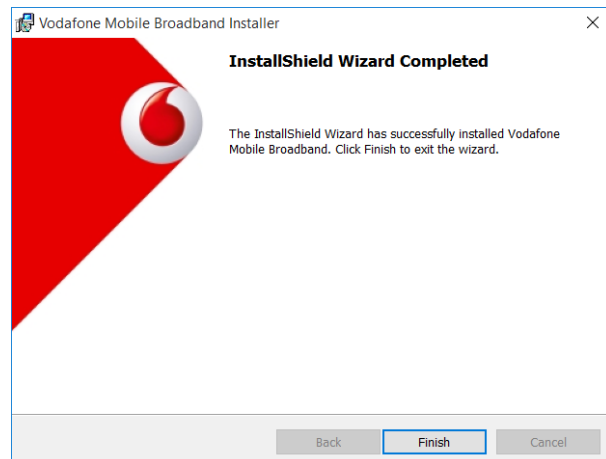




Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

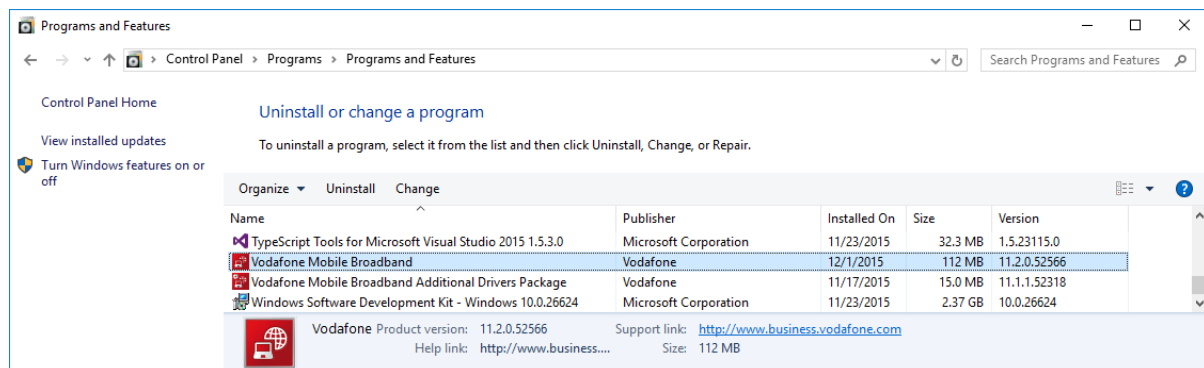
## 10. Final Window

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



## Uninstallation of Vodafone Mobile Broadband

The VMB Software will be uninstalled via the Control Panel of the system, then navigating to 'Programs and Features', then selecting 'Vodafone Mobile Broadband', and then clicking on the 'Uninstall' button or the 'Change' button.



## 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.

Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

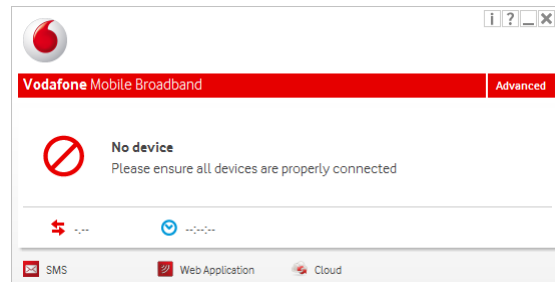
### 1. Splash Window

The customisable Splash window of the Vodafone Mobile Broadband application.



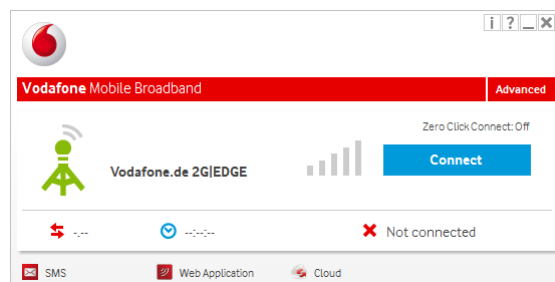
### 2. Standard Window (no device state)

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.



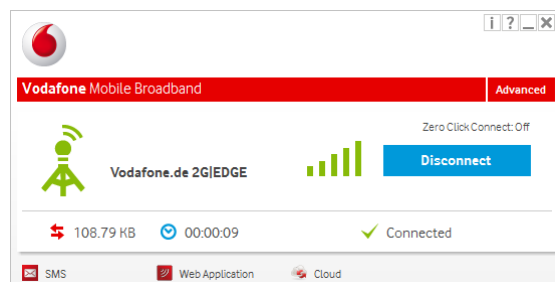
### 3. Standard Window (not connected state)

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.



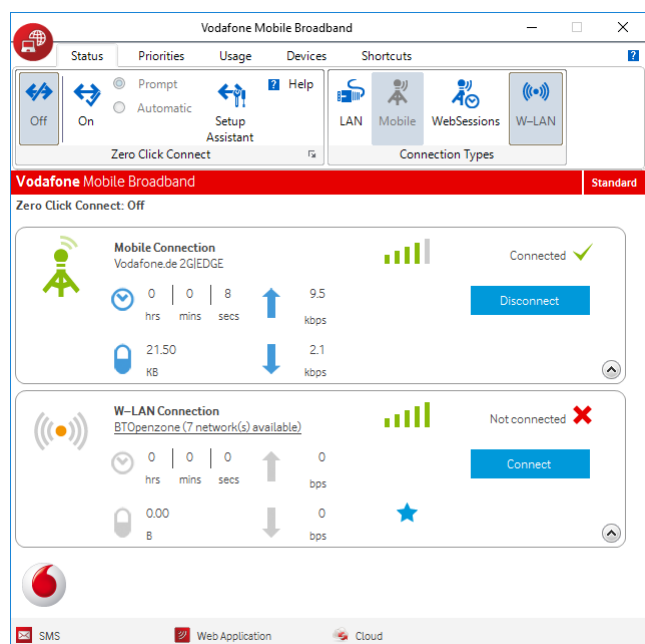
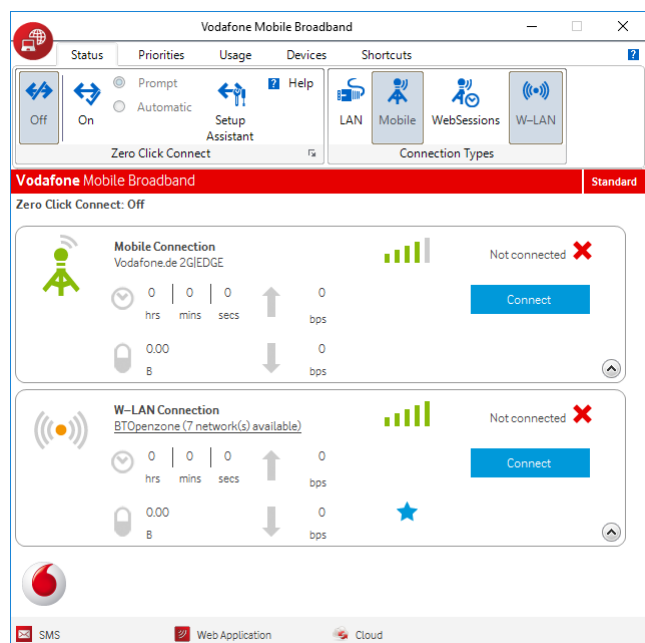
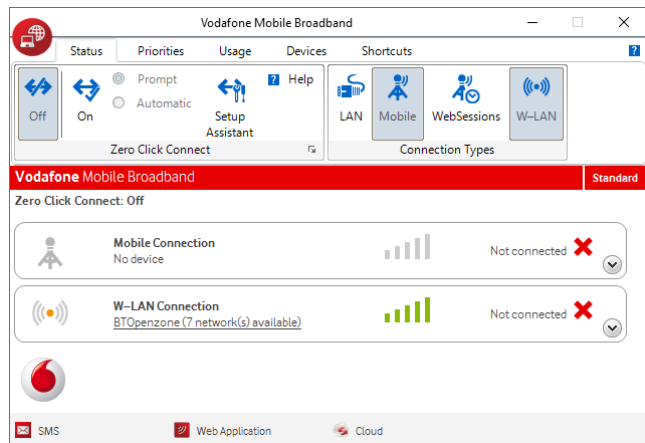
Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

## 5. Advanced Window

The Advanced window of the Vodafone Mobile Broadband application.

From top to bottom:

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



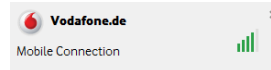
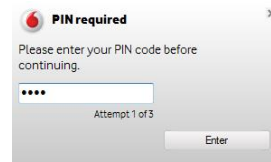
Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

## 6. VMB Notifications for Router devices

These notifications are appearing at the right bottom corner of the screen when using Router devices.

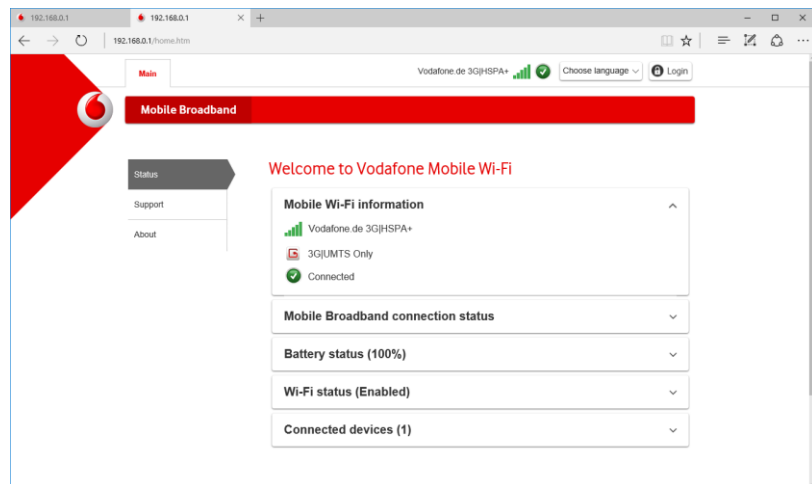
From top to bottom:

PIN required notification, Connected state notification, Not connected state notification.



## 7. Web Application Window

The Web Application window of the Vodafone Mobile Broadband application appears when clicking on the 'Web Application' button of the Standard/Advanced window. The Web Application provides interfaces for e.g. usage data, SMS, and Help.



Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

## Installation and Customisation from Command Line

### Introduction

#### IExpress Variant

Running the IExpress software update package setup.exe with no command-line switches, the default Setup program, is automatically run to install the software update. The Setup program for the VMB IExpress package is an executable program, i.e. setup\_vmb.exe.

The switches for the Setup program setup\_vmb.exe can be used to control the installation options via IExpress switches.

#### Note

You can use the /c:path switch to pass parameters (switches) to the Setup program or specify a different Setup program for the package. For example, the following command-line syntax can be used to run the VMB Setup IExpress package and pass parameters to the Setup program (setup\_vmb.exe) that is contained in the package.

For an administrative installation of VMB via the IExpress setup package use the following command line:

```
Setup.exe /c:" setup_vmb.exe /a"
```

#### Compressed Variant

The msixec.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 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 msixec.exe Windows Installer should only be used directly if the target system fulfils the software requirements.

#### Example

Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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>/i</i>	Package Product Code	Installs or configures a product.
<i>/x</i>	Package Product Code	Removes a product.
<i>/a</i>	Package Product Code	Administrative Installation.
<i>/l</i>	[ilwlealr ulclm p v +!]Logfile	Specifies the log file path and indicates the flags to be logged.  i - Status messages w – Non-fatal warnings e - All error messages a - Startup of actions r - Action-specific records u - User requests c - Initial UI parameters m - Out-of-memory or fatal exit information o - Out-of-disk-space messages p - Terminal properties v - Verbose output x - Extra de-bugging information

Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

		<ul style="list-style-type: none"> <li>+ - Append to existing log file</li> <li>! - Flush each line to the log</li> <li>* - Log all information, except for v and x options.</li> </ul>
<i>/q</i>	n b l r f	<p>Sets user interface level</p> <ul style="list-style-type: none"> <li>n - No UI at all - 'silent install'</li> <li>b - Basic UI - small progress bars displayed, but not interactive</li> <li>r - Reduced UI - standard windows displayed to report progress, but not interactive</li> <li>f - Full UI (default) - fully interactive</li> </ul>
<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.

### 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>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>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>LOCKUSAGE</i>	boolean (default=false)	Locks the usage settings.

Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

<i>LOCKINGCODE</i>	string (default="")	Defines a locking code for the Lock Settings window before installation.
--------------------	---------------------	--

### 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 installer example above is that the msiexec.exe installer does not check the application requirements whereas the setup\_vmb.exe setup launcher does.

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

### 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](http://kb.flexerasoftware.com/doc/Helpnet/installshield12helplib/IHelpSetup_EXECmdLine.htm)

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



Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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

setup\_vmb.exe /a

### 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. 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"/l\*v c:\vmblog.txt /qn /norestart"

2. If the feature SMS should not be installed, then the installer must be launched twice using the REMOVE parameter in the second command line. The first run installs VMB and the subsequent run removes the SMS feature.

Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

```
setup_vmb.exe /s /v"/qn /norestart"
```

```
setup_vmb.exe /s /v"REMOVE=SMS /qn /norestart"
```

3. This example is using Greek as installation language and as run-time language. This is achieved by setting the options /L, and USEDEFAULTLANGUAGE in the command line, ie. /L1032, and USEDEFAULTLANGUAGE=false.

```
setup_vmb.exe /s /L1032 /v"USEDEFAULTLANGUAGE=false /qn /norestart"
```

#### B. Network operator (OpCo) known

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). The system will not be restarted automatically after this silent installation.

```
setup_vmb.exe /s /L2057 /v"OPCO_PROP=23415 USEDEFAULTLANGUAGE=false /qn /norestart"
```

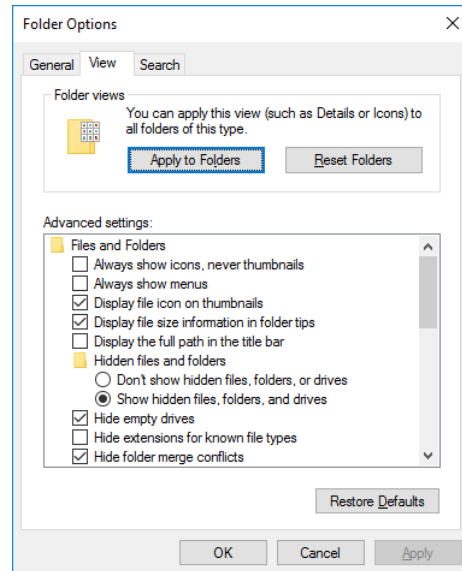
Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

## Frequently Asked Questions (FAQ)

### How to display hidden files and folders in Windows explorer

Windows 10

1. Open Explorer.
2. From the 'View' tab, select 'Options' and then 'Change 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
Windows 10	<drive>:\Users\<username>\AppData\Roaming

### 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 msixexec.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
```

Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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 11?

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>
<i>C:\Program Data\Vodafone</i>

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

Registry key
<i>HKEY_CURRENT_USER\Software\Vodafone</i>

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
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Fehler! Verwenden Sie die Registerkarte 'Start', um Heading 1 dem Text zuzuweisen, der hier angezeigt werden soll.

`%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 **<vmb\_folder>\Vodafone\Vodafone Mobile Broadband\UserData.**

### Which Registry values are used by VMB11?

Vodafone Mobile Broadband is using the following registry keys

HKEY\_LOCAL\_MACHINE\Software\Vodafone

HKEY\_LOCAL\_MACHINE\Software\Vodafone\Common

HKEY\_LOCAL\_MACHINE\Software\Vodafone\Common\Installed Features

HKEY\_LOCAL\_MACHINE\Software\Vodafone\VMB

HKEY\_LOCAL\_MACHINE\Software\Vodafone\VMB\Dali

HKEY\_LOCAL\_MACHINE\Software\Vodafone\VMB\Dali\Mbnsdk

HKEY\_LOCAL\_MACHINE\Software\Vodafone\VMB\MarketSegments

HKEY\_LOCAL\_MACHINE\Software\Vodafone\VMB\Libraries

HKEY\_LOCAL\_MACHINE\Software\Vodafone\VMC

HKEY\_CURRENT\_USER\Software\Vodafone

HKEY\_CURRENT\_USER\Software\Vodafone\VMB

HKEY\_CURRENT\_USER\Software\Vodafone\VMB\LRU

HKEY\_CURRENT\_USER\Software\Vodafone\VMB\MarketSegments

Note: Below there are some examples of registry values used by VMB. This is however not a complete list of all registry values.

Registry values in HKEY\_LOCAL\_MACHINE\Software\Vodafone\Common.

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

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<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.

Registry values in HKEY\_LOCAL\_MACHINE\Software\Vodafone\VMB.

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>InstallDateTime</i>	REG_SZ	string	Installation time stamp.
<i>LockUsage</i>	REG_SZ	boolean	Locks the usage settings window so the settings cannot be changed.
<i>SetupDirectory</i>	REG_SZ	<installdir>	Location of the installation folder.
<i>UseDefaultLanguage</i>	REG_SZ	boolean	Use the operating system language for the Vodafone Mobile Broadband application. The default for GUI based installations is 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>VpnSupportedClients</i>	REG_SZ	string	Semicolon separated list of supported VPN clients.

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Registry values in HKEY\_CURRENT\_USER\Software\Vodafone\VMB.

Value Name	Value Type	Value Data	Description
<i>LockingCode</i>	REG_SZ	string	Locking code.
<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 VMB11?

For supported list of network identifiers please refer to the Vodafone Mobile Broadband ReadMe.

Examples:

Mobile Network Operator	Network Identifier	Country
<i>Vodafone.de</i>	26202	Germany
<i>Vodafone Egypt</i>	60202	Egypt
<i>vodafone P</i>	26801	Portugal
<i>Vodafone UK</i>	23415	United Kingdom

### Which language identifier codes are used by VMB 11?

For supported list of language identifier codes please refer to the Vodafone Mobile Broadband ReadMe.

Examples:

Language (Country)	Decimal Code	Hexadecimal Code	String Code
<i>Arabic (Egypt)</i>	3073	0x0c01	ar-EG

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<i>English (United Kingdom)</i>	2057	0x0809	en-GB
<i>German (Germany)</i>	1031	0x0407	de-DE
<i>Portuguese (Portugal)</i>	2070	0x0816	pt-PT

### **How to add applications to the Shortcuts Bar**

Up to 11 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 11 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.

### **Which devices are supported by VMB 11?**

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



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## 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...

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**<http://support.vodafone.com>**

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