



Enterprise Install Guide: Vodafone Mobile Broadband

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Introduction

This document covers the installation of the Vodafone Mobile Broadband 10.2 application on Microsoft® Windows® operating systems in corporate environments. It covers scenarios for IT administrators, customisation, and the rollout of the application using transform files.

For an introduction to corporate rollouts of the Vodafone Mobile Broadband application, please refer to the Standard Install Guide.

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

	Vodafone Mobile Broadband Standard Install Guide	Vodafone Mobile Broadband Enterprise Install Guide (this document):
<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>		✓

Corporate Setup Package

The Corporate Setup Package is provided as a compressed release, where all program files are stored into a single cabinet file, it comprises the following files in folder DISK1.

File	Description
<i>Vodafone Mobile Broadband.msi</i>	Installer database file
<i>Setup_vmb.exe</i>	InstallShield's setup launcher application
<i>Setup.ini</i>	Configuration file for InstallShield's setup launcher application <i>setup_vmb.exe</i>
<i>Data1.cab</i>	Compressed file containing all program files
<i>Autorun.inf</i>	Aurorun/AutoPlay configuration file
<i>Nnnn.mst</i>	Language Transform files for all supported languages, eg 2057.mst for English (UK)
<i>Oxnnnn.ini</i>	Configuration files for InstallShield's setup launcher application <i>setup_vmb.exe</i> containing language resources for all supported languages, eg 0x0809.ini for English (UK)

There are several differences compared to the standard Full cabinet release of Vodafone Mobile Broadband, please see following list.

Items	Cabinet release	Corporate cabinet release
<i>Setup prerequisites (Microsoft's hotfix KB918997 for Windows XP SP2 and MSXML 6.0 only)</i>	yes	no
<i>.Net Framework 2.0</i>	yes	no
<i>MSI Installer 3.1</i>	yes	no
<i>Visual C++ 2005 SP1 run-time assemblies</i>	yes	no
<i>Drivers</i>	all ¹	all ¹
<i>Languages</i>	all ¹	all ¹
<i>Opcos</i>	all ¹	all ¹
<i>Features</i>	all ¹	all ¹ , except Update feature

¹ For a list of supported drivers, languages, and Opcos, please check the ReadMe file.

Prerequisites for Vodafone Mobile Broadband

Setup prerequisites are Wireless LAN API hotfix, Installer 3.1, .Net Framework 2.0, and Visual C++ 2005 SP1.

Wireless LAN API (for Windows XP SP2 only)

Microsoft's hotfix **Wireless LAN API (KB918997)**, this hotfix is contained in Service Pack 3 of Windows XP.

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

However, this hotfix requires **Microsoft Core XML Services (MSXML)**, this application is contained in Service Pack 3 of Windows XP.

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

MSI Installer 3.1 (for Windows XP SP2 only)

The required MS Installer version for VMB is 3.1, this application is contained in Service Pack 3 of Windows XP.

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

.Net Framework 2.0 (for Windows XP only)

The VMB Software is a .Net application, thus .Net Framework 2.0 is required. Microsoft's .Net Framework 2.0 is part of Windows Vista and Windows 7, but not for Windows XP.

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

Microsoft Visual C++ 2005 SP1 Redistributable Package

The VMB Software is using version 8.0.50727.762 of this package, it is required for all Windows operating systems.

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

Customisation Files

Vodafone Mobile Broadband works with a user profile file named MobileBroadbandProfile.xml. This file is generated for each user during run-time. The setup package includes only a template user profile file which contains certain common settings in the folder <installdirectory>\templates. However this template user profile file is used as a starting point when creating an actual user profile file.

If certain settings for all users are required, then the standard template user profile file can be replaced by a different one during the setup process by using Microsoft's Transform mechanism.

In addition of the user profile file MobileBroadbandProfile.exe, there are two other profile files, one for VMB's SMS application named SmsProfile.xml, and one for VMB's Dial-Up feature named VodafoneMobileBroadband.pbk.

At least all Operator specific XML customisation files, like 23415.xml, Opco-23415.xml, for example for Vodafone UK can be replaced by modified ones.

These customisation files and of course all other files can be replaced during the setup process using Transform files.

Customisation using a modified User Profile file

When the Vodafone Mobile Broadband application is started for the very first time after installation, a user profile XML file **MobileBroadbandProfile.xml** is generated for the current user. This happens automatically without any user interaction or input. Such a XML user profile eg. created during a test installation of VMB can then be used as a template for customised installations: it can be edited and then replaced in the MSI database using Transforms, overwriting the standard template file.

Modifications to this file are made using a Transform file. Please refer to the Using Transforms for Customisation chapter for more details.

Creating and Authoring a customised User Profile

1. Install Vodafone Mobile Broadband 10 on a test computer.

Install the Vodafone Mobile Broadband application as described in the Standard Install Guide.

2. Perform first-time device installation.

See above for details on adding one or more devices. The device details created will be stored in the MobileBroadbandProfile.xml file.

Note

First-time device installation overwrites any existing user profile XML files.

3. Save the MobileBroadbandProfile.xml file to be used as a template for further customised installations.

Save the MobileBroadbandProfile.xml file created by the Vodafone Mobile Broadband application and located in the folder

Windows XP
<code><drive>:\Documents and Settings\<i><username></i>\Application Data\Vodafone\Vodafone Mobile Broadband\UserData</code>
Windows Vista and Windows 7
<code><drive>:\Users\<i><username></i>\AppData\Roaming\Vodafone\Vodafone Mobile Broadband\UserData</code>

Use this file as a template for your customised installations with Transforms.

4. Edit the MobileBroadbandProfile.xml file.

Optional: Modify XML elements as you require.

5. Create a Transform file.

Refer to the Using Transforms for Customisation chapter.

6. Apply your Transform file to the Vodafone Mobile Broadband 10 setup procedure.

Refer to the Using Transforms for Customisation chapter.

Customisation using a modified Dial-Up Phonebook file

If the 'Dial-Up' feature is set to 'true' in the OpCo XML file, a default dial-up phonebook called **VodafoneMobileBroadband.pbk** is generated during installation of the Vodafone Mobile Broadband application, in order to manage fixed-line dial-up connections. If there is an Operator specific phonebook (eg. 20810.pbk in the case of France), all entries in this phonebook are transferred to the default dial-up phonebook. The default dial-up phonebook can be edited and then replaced in the MSI database.

Modifications to this file are made using a Transform file. Please refer to the section Using Transforms for Customisation for more details.

Creating and authoring a customised dial-up phonebook

1. Install Vodafone Mobile Broadband 10 on a test computer.

Install the Vodafone Mobile Broadband application as described in the Standard Install Guide.

2. Create new entries in the phonebook VodafoneMobileBroadband.pbk

- Start the Vodafone Mobile Broadband application, switch to **Advanced View**.
- Then select either the **Status** or the **Priorities** tab.
- Open the **Connection Settings** window either by selecting the default connection in the Status view or by clicking the **Add Settings** button for Dial-up connections in the Priorities view.
- Select **New** to create a new phonebook entry.
- Select **OK** to save the new phonebook entry.
- The button **Dial Settings** can be used to enter the system properties of the dial-up connection for additional settings.
- Click the default connection in the Status view, or the **Add Settings** button for Dial-up connections in the Priorities view, to perform one of the following tasks:
 - Delete existing phonebook entries
 - Modify existing phonebook entries
 - Set Auto-VPN for an existing phonebook entry (If Auto-VPN is set, the default VPN client is started automatically once a connection has been opened).

3. Protect phonebook entries from modification by the user

The **VodafoneMobileBroadband.pbk** file is located in the folder

Windows XP
<i><drive>\Documents and Settings\<username>\Application Data\Vodafone\Vodafone Mobile Broadband\UserData</i>
Windows Vista and Windows 7
<i><drive>\Users\<username>\AppData\Roaming\Vodafone\Vodafone Mobile Broadband\UserData</i>

The Vodafone Mobile Broadband application uses some entry attributes which are not supported by the operating system. These attributes are therefore saved in the 'comment' value of a phonebook entry:

- **OPCO=1 or OPCO=0** If 1, this entry was transferred from the Operator specific phonebook.
- **Auto-Vpn =1 or AutoVpn=0** If 1, the default VPN client is started automatically once the connection is open.
- **Default=1 or Default=0** If 1, this is the default dial-up entry.
- **Locked=1 or Locked=0** If 1, only the dial prefix, the credentials and the device can be modified by the user.

If an attribute is missing, its value is set to '0'. Attributes are separated by '|'.

To set the **Locked** attribute, open the VodafoneMobileBroadband.pbk file in a text editor, and modify the comment of the entry to 'locked'. The first line of an entry is **[entry name]**

Examples:

[My Company1]

...

UseDialingRules=0

Comment=Default=1|Locked=1

LastSelectedPhone=0

...

[My Company2]

...

UseDialingRules=0

Comment=Locked=1

LastSelectedPhone=0

...

4. Create a Transform file.

Refer to the Using Transforms for Customisation chapter.

5. Apply your Transform file to the Vodafone Mobile Broadband 10 setup procedure.

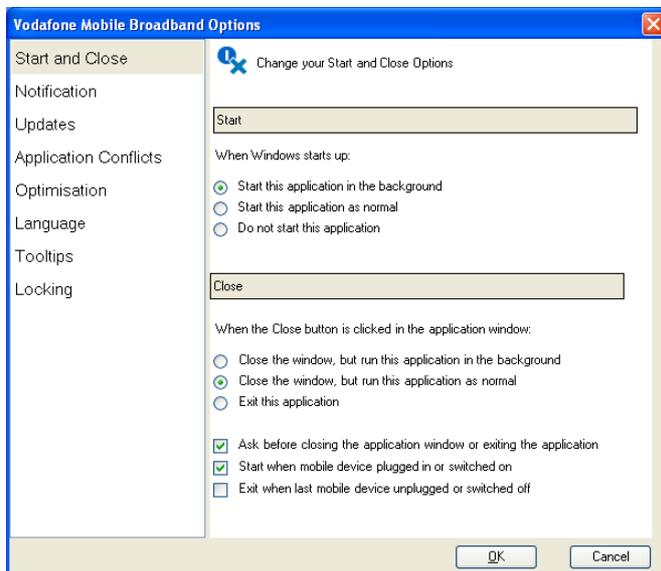
Refer to the Using Transforms for Customisation chapter.

Customisation Examples

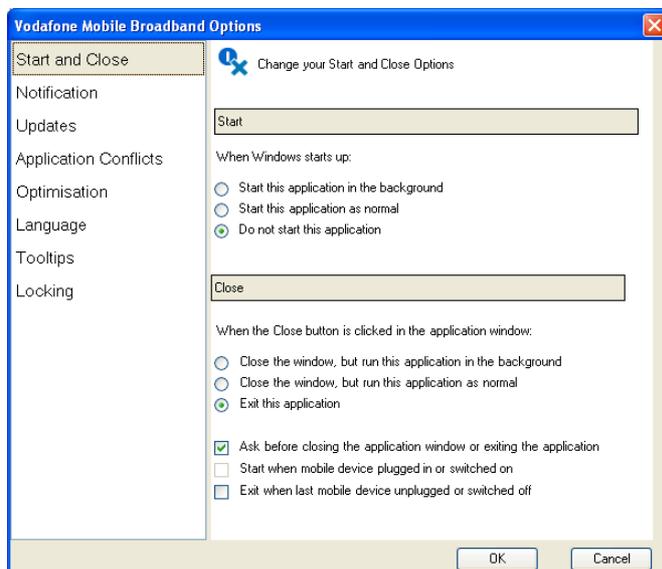
A good starting point for finding the correct xml element to be set for a certain task is to install VMB on a test machine and then to set the required setting from within the GUI. After exiting VMB, the modifications can then be viewed in the file MobileBroadbandProfile.xml, when compared to a saved file MobileBroadbandProfile.xml.

Start/exit settings

In order to check the default settings for the **Start and Close** options, start VMB and switch to **Advanced View**, then click the **Application Button** to open the drop down menu. Then click on **Options** to open the **Vodafone Mobile Broadband Options** windows. Click on option **Start and Close** in the left hand navigation area to display the current settings.



The default settings may be **Start this application in the background** for start option and **Close the window, but run this application as normal** for close option.



The default settings should be changed to **Do not start this application** for start option and **Exit this application** for close option.

Which File to modify?

If these changes should be applied for all OPCPs, then we must modify the template file **MobileBroadbandProfile.xml**, otherwise we have to change the OPCO file for one or more OPCOs, the OPCO file for Vodafone UK for instance is **Opco-23415.xml**.

What xml element to modify

The default xml elements in the file **MobileBroadbandProfile.xml** for the **Start and Close** options are:

```
<Gui Start="InBackground" Exit="None">
...
</Gui>
```

The default xml elements for the **Start and Close** options in the OPCO file are:

```
<Misc Start="InBackground" Exit="None">
...
</Misc>
```

The start value **InBackground** means **Start this application in the background** because of user logged on, whereas the exit value **None** means **Close the window, but run this application as normal**.

Default settings:

Xml element/attribute	Value	Description
<i>Gui/Start</i> <i>Misc/Start</i>	InBackground	Start this application in the background
<i>Gui/Exit</i> <i>Misc/Exit</i>	None	Close the window, but run this application as normal

The start value **DoNotStart** means **Do not start this application**, whereas the exit value **DoNotStartNewInstance** means **Exit this application**.

Required settings:

Xml element/attribute	Value	Description
-----------------------	-------	-------------

<i>Gui/Start</i> <i>Misc/Start</i>	DoNotStart	Do not start this application
<i>Gui/Exit</i> <i>Misc/Exit</i>	DoNotStartNewInstance	Exit this application

So, to change for instance the **Start and Close** options for **Vodafone UK**, please do the following:

1. Open file Opc0-23415.xml and add or change the xml element **Gui** to

```
<Misc Start="DoNotStart" Exit="DoNotStartNewInstance">
```

...

```
</Misc>
```

2. Perform the steps described in chapter **Using Transforms for Customisation** of this document.

Turn off Updates

If it is required to hide and to disable the VMB-GUI controls for the Updates functionality in VMB's application menu Options, then please set the following two installer properties either via command line or Transform modifying the property table of the msi database:

```
LOCKUPDATING=true
```

```
UPDATEINTERVAL=never
```

Note If you are using the corporate cabinet release, then Updates are already disabled and hidden.

Command Line Example:

```
setup_vmb.exe /s /b"%LOCALAPPDATA%\Vodafone" /v"LOCKUPDATING=true  
UPDATEINTERVAL=never /qb /norestart"
```

Or

```
msiexec.exe /i "Vodafone Mobile Broadband.msi" TRANSFORMS=2057.mst LOCKUPDATING=true  
UPDATEINTERVAL=never /qb /norestart
```

Parameter	Description
<i>Vodafone Mobile Broadband.msi</i>	Installer database file
<i>Setup_vmb.exe</i>	InstallShield's setup launcher application
<i>/s</i>	Performs a silent mode of application setup_vmb.exe
<i>/b</i>	Cache installation locally on the target machine. To specify where to cache the contents of a compressed

	<p>package on the local system. With the /b option, one can specify the directory in which to cache the installation files, as in /b"%LOCALAPPDATA%\Vodafone". A local cache of the installation files is necessary when installing VMB, the recommended local folder would be %LOCALAPPDATA%\Vodafone, but can be changed if required. The environment variable %LOCALAPPDATA% is defined in Windows Vista and in Windows 7, for Windows XP the environment variable %APPDATA% can be used as well. The cache location is important for installing missing features during run time. In that case the installer needs access to the msi database of Vodafone Mobile Broadband. Please use always the sub-folder name "Vodafone" for the cache location.</p>
/v	<p>The /v option is used to pass command line options and values of public installation properties through to Microsoft's installation process msiexec.exe. The recommended command line options are option /qb, which displays a basic UI, i.e. progress bar dialog during the installation process and option /norestart, which forces the installer never restarts the computer after the installation.</p>

Not installing feature SMS or feature Optimiser

The features SMS or ByteMobile can be excluded from the installation by using the installer property REMOVE. The feature being removed must be listed in the Feature table of the msi database. The value of this property is list of features delimited by commas. Installer property ADDLOCAL is a list of features that are delimited by commas, and are to be installed locally.

Command Line Example:

```
setup_vmb.exe /s /b"%LOCALAPPDATA%\Vodafone" /v"ADDLOCAL=ALL REMOVE=SMS /qb /norestart"
```

```
setup_vmb.exe /s /b"%LOCALAPPDATA%\Vodafone" /v"ADDLOCAL=ALL REMOVE=ByteMobile /qb /norestart"
```

or

```
msiexec.exe /i "Vodafone Mobile Broadband.msi TRANSFORMS=2057.mst ADDLOCAL=ALL REMOVE=SMS /qb /norestart"
```

```
msiexec.exe /i "Vodafone Mobile Broadband.msi TRANSFORMS=2057.mst ADDLOCAL=ALL REMOVE=ByteMobile /qb /norestart"
```

How to disable features?

Certain features can be set in the opco file using xml node element <Features>.

Xml element with default value	Description
<code><ABC>>false</ABC></code>	Should Always Best Connected be enabled in VMB software? If 'Yes' the software will display the ABC function in the main view. ABC provides best connectivity at any time.
<code><DialUp>>false</DialUp></code>	Dial-Up allowed? Tell VMB how to deal with the corresponding Dial-Up service module. If true, establishing Dial-up connections is allowed.
<code><DiasbleCA>>false</DisableCA></code>	Should management of conflicting applications be disabled in VMB software? If not VMB will inform the user about other application(s) using the same device.
<code><LAN>>true</LAN></code>	Should LAN be enabled in VMB software? Tell VMB how to deal with the corresponding LAN service module. And even if this switch is off, you can use LAN. Eg. the LAN service module only provides an indication whether a LAN connection is established or not. "Should LAN be enabled in VMB software? If set to 'true' this will provide a VMB software interface to check LAN connectivity.
<code><MyLocationfalse></Mylocation></code>	Location based service capability called my location.
<code><NetworkSearchTimeout>360</NetworkSearchTimeout ></code>	<p>If the user performs a manual network search and the software is not being able to register onto the previously selected network a message will ask for automatic network search. This message will be displayed after the amount of time defined here.</p> <p>NetworkSearchTimeout is triggered only by manual network searches. The dialog shall be presented after 6 minutes (360 seconds) of not being able to register onto the previously-selected network.</p>
<code><NetworkSearchTimeoutAuto>360</NetworkSearchTimeoutAuto></code>	If the device is searching in automatic mode: to trigger a Manual search and select to avoid the user having to remove the SIM.
<code><PowerOn>>true</PowerOn></code>	<p>Should the device be switched on automatically? If set to 'true', devices which have an initial radio state of OFF will automatically be switched on.</p> <p>For those devices which have an initial radio state of OFF or software disabled status it will be possible for the user</p>

	<p>to enable a setting in the start-up settings panel which allows VMB to switch the radio of the device on.</p> <p>The default setting for this value will be true. Where the user has made a custom action to disable the radio via the enable/disable mobile device option then VMB must NOT attempt to power on the device until the user has re-enabled the device.</p>
<code><SavePIN>true</SavePIN></code>	If SavePIN is 'true' the PIN will be saved in the software and used automatically when the SIM is used.
<code><SMS>true</SMS></code>	Should SMS module be enabled in VMB software? If set to 'true', the VMB software will provide a SMS client.
<code><VoiceClient>>false</VoiceClient></code>	<p>Should the Voice Call Manager be enabled in VMB software? If set to 'true', the Voice Call Manager will be installed.</p> <p>The Voice Capability is provided by the Huawei E169 and Vodafone K3520 devices (Vodafone Call Manager). There are two _rerequisites:</p> <ol style="list-style-type: none"> 1) the Operator must enable voice (VoiceClient = true). 2) a voice enabled data card has to be inserted.
<code><VPN>true</VPN></code>	Should VPN indication be enabled in VMB software? If set to 'true', this will provide a VMB software interface to the preferred VPN client (subject to VPN client support).
<code><WLAN>true</WLAN></code>	Should management of Wi- Fi be enabled in VMB software? If set to 'true', this will provide a VMB software interface to native Windows Wi-Fi features, subject to OS support. And even if this switch is off, you can use WLAN.

How to automatically start a VPN?

The setting `<AutoVPN>true</AutoVPN>` is attached to each APN xml element in Opc files (these are nnnnn.xml and Opc-nnnnn.xml), listed in the `<APNs>` area. The default value for xml element `<AutoVPN>` is false and VPN itself has to be enabled as a feature of VMB within the `<Features>` xml element.

File Opc-*nnnnn*.xml:

`<Features>`

`<VPN>true</VPN>`

```
</Features>
```

File nnnnn.xml:

```
<APNs SwitchMarketSegment="true">
```

```
<APN Account="Unknown" Apn="" HomeOP="" Name="" Pass="" DNS="" DNS2="" I="0"
User="">
```

```
<AutoVPN>>false</AutoVPN>
```

...

```
</APN>
```

```
</APNs>
```

How to disable the optimiser?

The optimiser, i.e. ByteMobile can be disabled using the following xml settings in the opco file.

```
<OptimisationClient Use="None">
```

```
<IP />
```

```
<Port>0</Port>
```

```
</OptimisationClient>
```

Using Locks

There are two things to do, first add or amend xml element <Locks> in template file MobileBroadbandProfile.xml, and second set installer property LOCKINGCODE either via command line or per Transform modifying the property table of the msi database.

Example: Three items should be locked: Usage, Updates, and ManageDevices

File: MobileBroadbandProfile.XML

```
<Locks>
```

```
<Locks>Usage Updates ManageDevices</Locks>
```

```
</Locks>
```

See below for a list of available locks.

Set command line installer property LOCKINGCODE or modify **Property Table** via Transform. After installation of VMB the locking code is stored without encryption in registry hive HKLM\SOFTWARE\Vodafone\VMB:LockingCode.

Command line example:

```
msiexec.exe /i "Vodafone Mobile Broadband.msi" LOCKINGCODE=500503 TRANSFORMS=...
```

Locks available

Member Name	Description
<i>None</i>	No locks
<i>Startup</i>	Startup: (Broadband Options / Start and Close)
<i>Standby</i>	Standby: (Broadband Options / Standby or Hibernate)
<i>Notification</i>	Notification: (Broadband Options / Notifications)
<i>Updates</i>	Updates: (Broadband Options / Updates)
<i>Language</i>	Language: (Broadband Options / Language)
<i>ConnectionDisplay</i>	ConnectionDisplay
<i>Usage</i>	Usage: (Usage Ribbon)
<i>AccountType</i>	AccountType: (Account Type)
<i>VPNsettings</i>	VPNsettings: (Main Ribbon, switching group)
<i>ManageConnections</i>	ManageConnections: (Connections Ribbon)
<i>ManageDevices</i>	ManageDevices: (Devices Ribbon)
<i>Optimisation</i>	Optimisation: (Broadband Options, Optimisation)
<i>CustomProgram</i>	CustomProgram: (Program Ribbon)
<i>ApplicationConflicts</i>	Application Conflicts: (Broadband Options)
<i>All</i>	All settings

Feature Application Conflicts

This feature cannot be hidden from the GUI, it is only possible to lock it using the following lines.

<Locks>

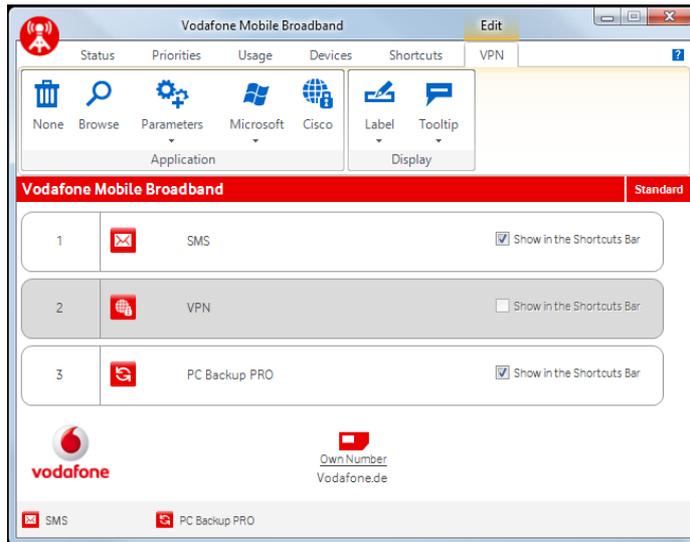
<Locks>ApplicationConflicts</Locks>

</Locks>

Appendix A: Supported VPN Clients

Vodafone Mobile Broadband 10 supports the following VPN clients:

- Cisco (the new Cisco VPN Client called 'Any Connect' is currently not supported)
- Checkpoint
- Fortinet
- Microsoft VPN.



The following functionality is supported for all these clients:

- Detecting if a VPN client is installed on the user's computer
- If a VPN client is detected as installed, the VPN tab will show an additional button that allows a profile from the VPN application to be selected
- The VPN connection will be monitored and its status (connected / disconnected) will be shown in the **Status** view

If the VPN connection is broken or disrupted, Vodafone Mobile Broadband detects this and will try to re-open the connection automatically

- If the user manually closes the mobile connection, the Vodafone Mobile Broadband application will disconnect the VPN first.

For all other VPN clients, Vodafone Mobile Broadband 10 only includes basic support. The path to the VPN client can be selected using the **Browse** button and window. After the client has been selected, it can be started from a Shortcut on the Shortcuts Bar in the Vodafone Mobile Broadband Standard and Advanced application windows. In such cases, the VPN connection will not be monitored by Vodafone Mobile Broadband, and the application will not monitor or display the status of the VPN connection.

VPN Configuration

If a VPN client is configured, it is possible to enable this client for use with Vodafone Mobile Broadband.

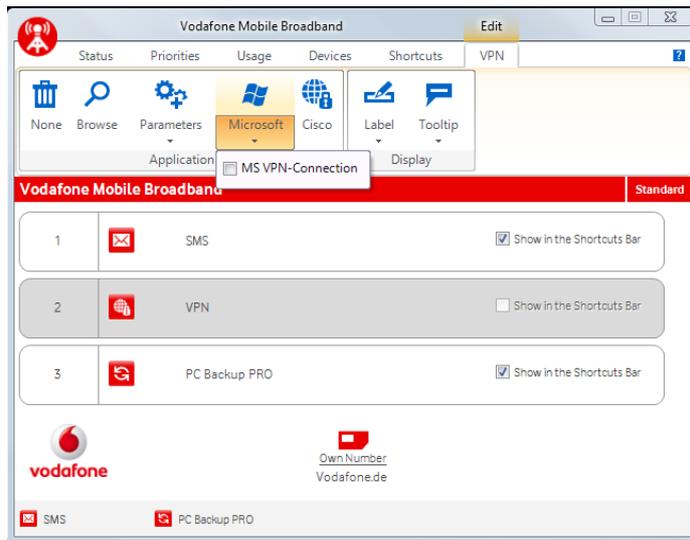
There are two possibilities:

- Using the Vodafone Mobile Broadband user interface
- Manual configuration by editing the Vodafone Mobile Broadband user profile.

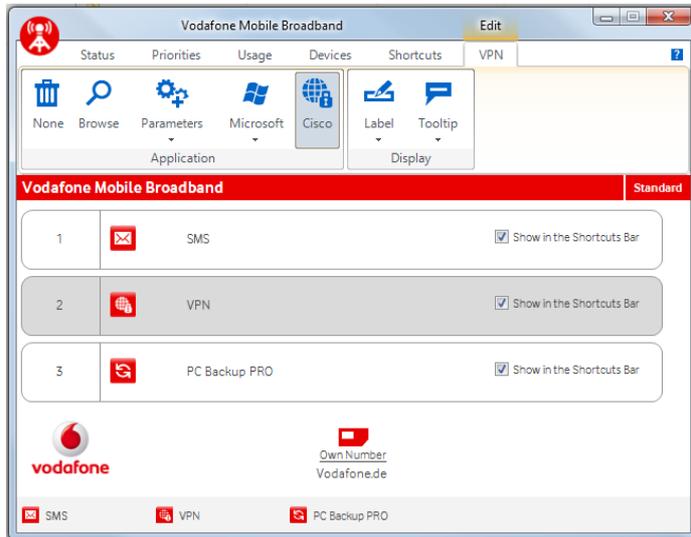
For both use-cases, a working VPN connection must already exist in Windows.

Appendix A: Supported VPN Clients

Configuration via the User Interface



If a supported VPN client is installed and configured in Windows, the Vodafone Mobile Broadband application will automatically display a button for it (Microsoft, Cisco, Checkpoint or Fortinet). If one of these buttons is selected, a drop-down menu with the available profiles from the VPN client will be shown. Select the checkbox for any profile to create a Shortcut for this profile on the Shortcuts Bar in the Vodafone Mobile Broadband application windows.



If a VPN client is activated for use from within Vodafone Mobile Broadband, it will be shown as a selected button. Only one VPN client can be active in Vodafone Mobile Broadband; if another client is selected, the first one will be de-selected automatically. The active VPN client can be de-selected by clicking the button. All configurations are saved in the Vodafone Mobile Broadband user profile, which can be edited manually.

Manual Configuration by editing the User Profile

The following entries can be seen afterwards in the `MobileBroadbandProfile.XML` file. There is an entry in the user profile which allows a shortcut to be created for the VPN:

```
<VpnShortcut>true</VpnShortcut>
```

Microsoft VPN

The necessary entries in the `MobileBroadbandProfile.XML` file are:

```
<UseMsVPN>true</UseMsVPN>
```

```
<MsVpnName>MS VPN</MsVpnName>
```

Appendix A: Supported VPN Clients

MS VPN must be the name of the Microsoft VPN connection that has been configured in Windows.

Cisco VPN

To manage a Cisco VPN connection, Vodafone Mobile Broadband uses **vpngui.exe**. The connection will be created using the default profile. The necessary entries in **MobileBroadbandProfile.XML** are:

```
<UseCiscoVPN>true</UseCiscoVPN>
```

```
<CiscoExec>C:\Program Files\Cisco Systems\VPN Client\vpngui.exe</CiscoExec>
```

The name of the Cisco profile can also be defined in **MobileBroadbandProfile.XML**:

```
<CiscoVpnName>Cisco Profile Name</CiscoVpnName>
```

Checkpoint VPN

```
<UseCheckpointVPN>>false</UseCheckpointVPN>
```

```
<CheckpointVpnName>Checkpoint VPN</CheckpointVpnName>
```

Checkpoint VPN must be the profile name of the Checkpoint VPN connection, which has been configured with Checkpoint.

The name of the Checkpoint profile can also be defined in **MobileBroadbandProfile.XML**:

```
<CheckpointVpnName>Checkpoint Profile Name</CheckpointVpnName>
```

Fortinet VPN

```
<UseFortinetVPN>>false</UseFortinetVPN>
```

```
<FortinetVpnName>Fortinet VPN</FortinetVpnName>
```

Fortinet VPN is the profile name of the Fortinet VPN connection, which has been configured with Fortinet.

The name of the Fortinet profile can also be defined in **MobileBroadbandProfile.XML**:

```
<FortinetVpnName>Fortinet Profile Name</FortinetVpnName>
```

Appendix B: Always Best Connected (ABC) - Reference

Always Best Connected enhances the Vodafone Mobile Connect application, allowing it to manage all available types of connection, as opposed to only being able to manage mobile connections:

- LAN (Ethernet)
- Mobile Networks (eg. GPRS, 3G, HSPA)
- Wi-Fi (e.g. public hotspots, Wi-Fi routers, or corporate Wi-Fi networks).

Always Best Connected has been built on core Windows services, including the .NET Framework and the Windows WLAN API.

To use ABC the following items must be installed:

- Windows XP Service Pack 3 or higher (or Windows Vista or Windows 7)
- If you are using Windows XP Service Pack 2, you will need to ensure that the following patches are installed:
 - .NET Framework 2.0 (this is installed with the Vodafone Mobile Broadband application)
 - WLAN API Hotfix (KB918997) – language-dependent (EN, FR and DE are included in the VMB installer)
 - MSXML 6.0 (KB933579) – language-dependent (EN, FR and DE are included in the VMB installer)
- ABC does not support Windows 2000, as the required Windows services are not available on this platform.

In addition, the Microsoft Windows Wi-Fi manager built into the operating system must be used for Wi-Fi management, and not a 3rd party Wi-Fi manager. We also recommend that any Wi-Fi profiles required for corporate Wi-Fi networks are pre-loaded: Always Best Connected will detect and use existing Windows Wi-Fi profiles automatically.

The changes described in the following chapters must be made in the OpCo.XML file to define the service settings. The OpCo.XML file can be found at the following location:

```
%ProgramFiles%\Vodafone\Vodafone Mobile Broadband\Opco\
```

Example for Vodafone UK:

```
%ProgramFiles%\Vodafone\Vodafone Mobile Broadband\Opco\23415 United Kingdom\23415.XML
```

To localise the installation to your environment, additional changes are required to the MobileBroadbandProfile.XML in the templates section:

```
%ProgramFiles%\Vodafone\Vodafone Mobile Broadband\Templates\MobileBroadbandProfile.XML
```

Enable or Disable ABC

Although Wi-Fi itself is not de-selectable, two other features offered by an OpCo (mobile network operator) can be de-selected by the user:

- Optimisation software
- SMS.

Appendix B: Always Best Connected (ABC) - Reference

In this element, additional features can be defined by the OpCo, e.g. VPN, SavePIN, PowerOn, and so on.

Xml element	Value	Comment
<i>ABC</i>	boolean	Feature can be disabled by the user.
<i>DisplayName</i>	string	DisplayName, e.g. <i>Always best connected</i> .
<i>DisableSetting</i>	boolean	Feature can be disabled by the user.

```
<Features>
  <ABC>true</ABC>
  <LAN>true</LAN>
  <WLAN>true</WLAN>
  <SMS>true</SMS>
  <VPN>true</VPN>
  <SavePIN>true</SavePIN>
  <PowerOn>true</PowerOn>
  <DisableSIMdetection>>false</DisableSIMdetection>
  <NetworkSearchTimeout>360</NetworkSearchTimeout>
  <DisableCA>>false</DisableCA>
  <VoiceClient>>false</VoiceClient>
  <UltraCard>true</UltraCard>
</Features>

<AlwaysBestConnected DisplayName="ABCd">
  <DisableSetting>true</DisableSetting>
```

Switching Behaviour

The SwitchingBehaviour tag specifies how the Vodafone Mobile Broadband application should react to changes in connections or the availability of connection types. This section applies to three situations:

- Connect
- Disconnect
- Switch situation (disconnect followed by connect).

The tags PreventWhenVpn, PreventWhenBusy, and PreventWhenNew apply only to the disconnect and switch situations. They allow the OpCo to define that an automatic switch to a higher-prioritised connection will be prevented if there a connection is already open, which

- has a VPN connection running over it
- is busy transferring data

Appendix B: Always Best Connected (ABC) - Reference

- or has only been open for a short time - the default is 0 minutes.

The PreventWhenVpn and PreventWhenBusy tags are Boolean. The PreventWhenNew tag is numeric and defines the number of minutes for which a connection will be considered 'new'.

Xml element	Value	Comment
<i>PreventWhenVpn</i>	boolean	Prevent when a VPN is open.
<i>PreventWhenNew</i>	number	Prevent when a connection is new.
<i>SwitchingMode</i>	Auto Prompt Manual	This tag allows the OpCo to define whether a switch to the highest prioritised connection should be made automatically, or whether the user will be prompted, or if the user has to connect and disconnect manually. The possible values for these tags are Auto, Prompt, and Manual.
<i>HasSpecialModeChange</i>	boolean	When the SwitchingMode is changed from Off to Auto or Prompt, the LAN and Wi-Fi connection types will be selected as well. When the SwitchingMode is changed from Auto or Prompt to Manual, the LAN and WLAN connection types will be de-selected as well.
<i>PromptWhenRoaming</i>	boolean	Prompt when roaming.
<i>PromptWhenVpn</i>	boolean	Prompt when VPN.
<i>ShowNotifications</i>	boolean	This tag defines whether the user will be notified about a better connection by a notification above the Vodafone Mobile Broadband Notification area ('system tray') icon when the switching mode is set to Auto or Manual. When in Manual mode, the notification can be clicked to switch. No notification will be shown when the switching mode is Prompt, because a separate prompt window will appear anyway. When the global switching mode is Auto, a notification might still be desirable in certain situations: - A roaming scenario (for all three situations: connect, disconnect, and switch), - When a connection is open and a VPN connection is running through it, and this

Appendix B: Always Best Connected (ABC) - Reference

		connection needs to be closed in order to switch to a higher-prioritised connection.
--	--	--

```

<SwitchingBehaviour>
  <PreventWhenVpn>>false</PreventWhenVpn>
  <PreventWhenNew>0</PreventWhenNew>
  <SwitchingMode>Manual</SwitchingMode>
  <HasSpecialModeChange>>true</HasSpecialModeChange>
  <PromptWhenRoaming>>true</PromptWhenRoaming>
  <PromptWhenVpn>>true</PromptWhenVpn>
  <ShowNotifications>>true</ShowNotifications>
</SwitchingBehaviour>

```

Auto VPN

You can use the **AutoVpn** section to define VPN settings for connection profiles. These settings only apply when a corporate anchor point has not been defined.

VpnGlobal is only used when a corporate anchor point has been defined. It is the default value for the global setting, which can be used to set up the software for corporate or for private use.

The other sub-tags of this element define the default value for starting a VPN per connection profile (for the respective bearer types). These values are only used when a corporate anchor point has not been defined. Possible values are True and False; the default is False. The setting is independent of the specific VPN client: it applies to all VPN clients.

Xml element	Value	Comment
<i>VpnGlobal</i>	boolean	Global VPN Flag
<i>LAN</i>	boolean	LAN
<i>WWAN</i>	boolean	WWAN
<i>WebSessions</i>	boolean	WebSessions
<i>PreferredWlan</i>	boolean	Preferred WLAN
<i>OtherWlan</i>	boolean	Other WLAN

```

<AutoVpn>
  <VpnGlobal>>false</VpnGlobal>
  <LAN>>false</LAN>
  <WWAN>>false</WWAN>
  <WebSessions>>false</WebSessions>
  <PreferredWlan>>false</PreferredWlan>
  <OtherWlan>>false</OtherWlan>

```

Appendix B: Always Best Connected (ABC) - Reference

</AutoVpn>

National and International

The **AlwaysBestConnected** element contains two objects that prioritise the connection types:

- The sub-tag in the International tag sets the priority of this connection type when the user is in a roaming situation
- The sub-tag in the National tag sets the connection's priority in non-roaming situations, ie. when the user is located in coverage of their home network.

The National and International elements describe the prioritisation order of connection types, and which of them should be enabled by default. The sections also configure the Open Internet Anchor Points. Each BearerPrio object contains a new DisconnectionBehaviour tag, both for National and International, which defines whether and how Vodafone Mobile Broadband should disconnect a Mobile or WebSessions connection when a higher priority LAN or Wi-Fi connection is opened. The possible values for these tags are Auto, Prompt and Manual.

Xml element	Value	Comment
<i>National</i>	string	The object National will be applied, when the user is in a non-roaming situation.
<i>International</i>	string	The object International will be applied, when the user is in a roaming situation.
<i>Title</i>	string	Module title string.
<i>Bearer</i>	string	Bearer type string.
<i>Enabled</i>	boolean	Module status.
<i>Index</i>	number	Index of the ServiceModule.

```
<National>
  <AnchorPoint1 Latency="10" ResponsePattern="">
    <Server />
  </AnchorPoint1>
  <AnchorPoint2 Latency="10" ResponsePattern="">
    <Server />
  </AnchorPoint2>
  <Modules Title="At home">
    <Module Bearer="LAN" Enabled="false" Index="0" />
    <Module Bearer="WWAN" Enabled="true" Index="1" />
    <Module Bearer="PreferredWLAN" Enabled="false" Index="2" />
    <Module Bearer="OtherWLAN" Enabled="false" Index="3" />
    <Module Bearer="WebSessions" Enabled="false" Index="4" />
  </Modules>
```

Appendix B: Always Best Connected (ABC) - Reference

```
</National>
<International>
  <AnchorPoint1 Latency="10" ResponsePattern="">
    <Server />
  </AnchorPoint1>
  <AnchorPoint2 Latency="10" ResponsePattern="Vodafone Group Plc">
    <Server>http://www.vodafone.com</Server>
  </AnchorPoint2>
  <Modules Title="Abroad">
    <Module Bearer="LAN" Enabled="true" Index="0" />
    <Module Bearer="PreferredWLAN" Enabled="true" Index="1" />
    <Module Bearer="WWAN" Enabled="true" Index="2" />
    <Module Bearer="WebSessions" Enabled="false" Index="3" />
    <Module Bearer="OtherWLAN" Enabled="true" Index="4" />
  </Modules>
</International>
```

Anchor Points

Even when a connection has been selected and opened by the Vodafone Mobile Broadband application with ABC, the connection may still not be useful to the user, either because it does not offer access to the internet, or because the user cannot reach their corporate network via VPN. ABC can therefore be set up to make HTTP requests to specific servers to check for both internet and intranet access. These servers are called ‘anchor points’. Their URLs must be defined and they must fulfil certain conditions:

- The sub-tag in the ‘International’ tag sets the priority of this connection type when the user is in a roaming situation
- High server availability
- Fast response
- Low data traffic.

Open Internet Anchor Points vs. Corporate Anchor Point

Open Internet Anchor Points can be defined by the OpCo in the OpCo.XML file – see the introduction to this chapter for the location. These Open Internet Anchor Points are used to check that the internet can actually be reached, for instance when using a public Wi-Fi hotspot.

A **Corporate Anchor Point** can be defined by an IT administrator in the MobileBroadbandProfile.XML file. This anchor point will then be used to check that the corporate intranet can be reached via VPN – see the Auto VPN section above.

Xml element	Value	Comment
-------------	-------	---------

Appendix B: Always Best Connected (ABC) - Reference

<i>AnchorPoint1</i>	url	URL of server acting as the corporate anchor point.
<i>AnchorPoint2</i>	url	URL to be used if AnchorPoint1 is not available.
<i>Latency</i>	number	To accept the connection as usable, the anchor point must be reachable within this latency time (seconds).
<i>ResponsePattern</i>	string	The server must send back a response matching this response pattern.
<i>Server</i>	url	<p>The name of the anchor point. The Open Internet Anchor Point is used to check whether the internet in general is reachable, and whether the user's standard web browser should be opened to show a landing page.</p> <p>Whenever the highest-prioritised open connection changes, or a connection is opened manually, ABC issues an HTTP GET request over the connection to the Open Internet Anchor Point. If ABC does not get the expected response, it will also open the user's browser at the Open Internet Anchor Point.</p> <p>The browser's HTTP GET request might then be re-directed to a landing page. If the connection is a WebSessions connection, the user will be able to purchase a session on the landing page. If it is a Wi-Fi connection, the user might get a landing page for authorisation.</p> <p>When no Open Internet Anchor Point has been defined by the OpCo, ABC will always assume that the internet is reachable when a connection has been opened.</p>

```

<ABC Subscribed="true" InCorporateSenario="true">
<CorporateAnchorPoint Latency="10" ResponsePattern="ACK">
  <Server>http://myserver/ACK.html</Server>
</CorporateAnchorPoint>
</ABC>

```

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In this example, the XML defines that a server is accessible in a corporate intranet at the URL <http://myserver>, and serves an HTML file called [ACK.html](#). The content of the file includes the word **ACK**, and this is defined as the expected response pattern.

When a connection is opened, ABC will send a request to myserver. If the correct response (**ACK**) is received, no further action takes place and the user can continue to use the connection, because ABC has established that it can reach the corporate intranet. If, however, no response is received, and the `InCorporateScenario` and `VpnGlobal` tags are set to true, ABC will open the user's VPN automatically.

VPN Settings

The Vodafone Mobile Broadband application allows an IT administrator to define the VPN that shall be started, along with any parameters required.

The Vodafone Mobile Broadband application supports a wide range of VPN software:

- Microsoft VPNs – when a Microsoft VPN has been set up on the computer already, it can be selected via the Settings/VPN menu entry
- Other VPNs – any executable (.exe), batch file (.bat), script file (.cmd) etc. can be defined as the VPN software that VMB should use. For example, 'ipsecdialer.exe' is commonly-used VPN application from Cisco.

The VPN settings can be customised in the `MobileBroadbandProfile.XML` file.

Xml element	Value	Comment
<i>Location</i>	string	Program path / location of the VPN client
<i>ManualProxy</i>	string	Automatically use a manual proxy server when VPN is opened and a mobile device connection is in place.
<i>UseMsVpn</i>	boolean	Use Microsoft VPN client?
<i>MsVpnName</i>	string	Microsoft VPN name
<i>UseOtherVpn</i>	boolean	Use other VPN client?
<i>OtherVpnName</i>	string	Other VPN name
<i>NoProxyWhenNoVPN</i>	string	Inherit original proxy server settings when VPN is not open. Use no manual proxy server setting when VPN is not open.
<i>VpnParam</i>	string	Additional start parameter for the VPN client

```
<VPN ManualProxy="false" Proxy="" Port="0" Bypass="false" Script="" NoProxyWhenNoVPN="false">  
  <VpnParam>/c</VpnParam>
```

Appendix C: Using Transforms for Customisation

```
<Location>% ProgramFiles%\Cisco Systems\VPN Client\ipsecdialer.exe</Location>
<UseMsVPN>>false</UseMsVPN>
<UseOtherVPN>>true</UseOtherVPN>
<MsVpnName />
<OtherVpnName>Cisco VPN</OtherVpnName>
</VPN>
```

Here the location of an existing VPN client is defined in the **LOCATION** tag, and the start parameter **/c** is defined in the **VpnParam** to connect automatically when the client is started.

Appendix C: Using Transforms for Customisation

A Windows Installer Transform is a database that contains the differences between two MSI databases. A Transform can only be applied to an MSI database which will be installed, not to a product that is already installed on a target computer. Transforms are useful for system administrators to provide variations of a single product without having to modify the original product installer database. Multi-language installations are also performed by a default language contained in the MSI database, together with several Transform files, one for the localised strings of each language.

Creating Transforms

The following instructions describe basic steps using Orca from Microsoft to create Transforms. All tasks can actually be put into one single Transform – there is no need to put each step or customisation into a separate Transform.

Task: Replace a File - the file 23415.xml should be replaced by a modified file.

Original file

```
<working folder>\program files\Vodafone\Vodafone Mobile Broadband\Opco\23415
United Kingdom\23415.xml
```

Modified file

```
23415.xml
```

For the modified file size, open Windows Explorer, navigate to the modified file, right-click it to display its properties, and then note the file size, e.g. **Size: 4.64 KB (4.756 bytes)**. Keep this number in mind when creating the Transform later.

1. Start Orca.
2. From the File Menu, select Open.
3. Browse to the folder that contains your working copy of the Vodafone Mobile Broadband application.
4. Select **Vodafone Mobile Broadband.msi**.
5. Click Open.

Appendix C: Using Transforms for Customisation

6. From the Transform menu, select **New Transform**.
7. In the left pane, select the **File** table.
8. In the right pane, select the row which displays the filename **23415.xml** in the third column.
9. Select the column **FileSize** and enter the file size of your modified file **23415.xml**
10. From the Transform menu, select **Generate Transform**.
11. Enter a Transform filename and save the Transform.
12. From the Transform menu, select **Close Transform**.
13. Exit Orca.

These are the basic steps to replace a file using a Transform. For all OpCo files, including 23415.xml, an additional step is necessary to replace this file correctly:

- 9.1. In the left pane, select the **ISSetupFile** table.
- 9.2. In the right pane, select the row which displays the filename **23415.xml** in the second column.
- 9.3. Read the binary stream for file 23415.xml by clicking on to the **Stream** column
- 9.4. Select the modified file 23415.xml with the browse button

After generating the Transform, it must be applied to the installation setup package:

1. Open the file setup.ini in an editor, e.g. notepad.exe.
2. Find the **[Startup]** section and complete the **CmdLine=** key with the name of your Transform file, e.g. CmdLine=TRANSFORMS=MyTransform.mst
3. Copy the modified file 23415.xml to the location of the uncompressed setup where the original file was stored.
4. Copy the Transform file to the root directory of the uncompressed setup where the files **Vodafone Mobile Broadband.msi** and **setup.ini** are located.
5. Start the setup, e.g. by double-clicking **setup_vmb.exe**.

Task: Change a property - a specific property should be modified:

1. Start Orca.
2. From the File Menu, select Open.
3. Browse to the folder that contains your working copy of the Vodafone Mobile Broadband application.
4. Select Vodafone **Mobile Broadband.msi**.

Appendix C: Using Transforms for Customisation

5. Click Open.
6. From the Transform menu, select **New Transform**.
7. In the left pane, select the **Property** table.
8. In the right pane, select the row which displays the file you want to modify.
9. In the right pane, select the column **Value** and enter a new value for the property.
10. From the Transform menu, select **Generate Transform**.
11. Enter a Transform filename and save the Transform.
12. From the Transform menu, select **Close Transform**.
13. Exit Orca.

Task: Modify a registry key - a specific registry key should be modified:

1. Start Orca.
2. From the File Menu, select Open.
3. Browse to the folder that contains your working copy of the Vodafone Mobile Broadband application.
4. Select **Vodafone Mobile Broadband.msi**.
5. Click Open.
6. From the Transform menu, select **New Transform**.
7. In the left pane, select the **Registry** table.
8. In the right pane, select the row which displays in the column **Name** the name of the registry key to be modified.
9. In the right pane, select the column **Value** and enter a new value for the registry key.
10. From the Transform menu, select **Generate Transform**.
11. Enter a Transform filename and save the Transform.
12. From the Transform menu, select **Close Transform**.
13. Exit Orca.

Authoring Transform files

The following example shows how to create a Transform file with Orca from Microsoft to replace the sample file MobileBroadbandProfile.xml and the Opco file 23415.xml from the MSI database.

1. Install Orca.

Orca can be downloaded from the following Microsoft webpage:

<http://support.microsoft.com/kb/255905/EN-US>

2. Make a backup copy of the **Vodafone Mobile Broadband.msi** file.

Appendix C: Using Transforms for Customisation

3. Open Orca.exe.
4. From the File menu, select Open and browse to the file **Vodafone Mobile Broadband.msi**.
5. From the Transform menu, select **New Transform**.
6. In the left pane, select the **File** table.
7. In the right pane, select the **MobileBroadbandProfile.xml** row.
8. Select the column **FileSize** and enter the file size of the new **MobileBroadbandProfile.xml** file.
9. In the right pane, select the row which displays filename **23415.xml** in the third column.
10. Select the column **FileSize** and enter the file size of the new **23415.xml** file.
11. In the left pane, select the **ISSetupFile** table.
12. In the right pane, select the row which displays the filename **23415.xml** in the second column.
13. Read the binary stream for file 23415.xml by clicking on to the **Stream** column. Select the modified file with the Browse button.
14. Generate a Transform file by selecting **Generate Transform...** from the Transform menu.
15. Save your modifications.
16. Close the Transform file **MyTransform.mst**.
17. Exit Orca.exe.

Applying Transform files with setup_vmb.exe

The following steps explain how to apply a Transform file along with an installer database package.

1. Apply the Transform file.



```
File Edit Format View Help
[Info]
Name=INTL
Version=1.00.000
DiskSpace=8000 :diskspace requirement in KB

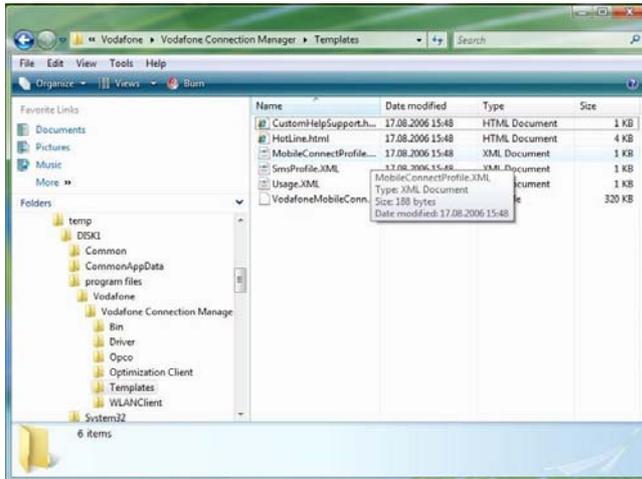
[Startup]
CmdLine=TRANSFORMS=MyTransform.mst
SuppressWarnings=V
ScriptDir=I18n0
ScriptVer=1.0.0.1
DotNetOptions=InstallIfSilent=N
OutpprIden1
RequireExactLangMatch=0404_0804
Product=vodafone mobile connect
PackageName=vodafone Mobile Connect.msi
EnableLang=V
LogResults=V
UI=1000
DataInstance=N
ProductCode={890823E-4980-4858-9B0C-5415624F0666}
ProductVersion=2.0.0.3736
SuppressReboot=V
DotNetVersion=2.0.50727
DotNetSPRequired=
UseDotNetUI=N
dotnetcorsetupuzLang=
dotnetlangpackcs=
dotnetncid=
dotnetlangpackcmd=
```

Apply the Transform file by editing the **setup.ini** file. Open the setup.ini file in an editor - e.g. notepad.exe. Find the **[Startup]** section and complete the **CmdLine** key with the name of your Transform file, e.g. **MyTransform.mst** in the following example.

Note: Any Transform file can also be applied by setting the command line parameter **TRANSFORMS**, either with setup_vmb.exe or with the msixexec.exe installer.

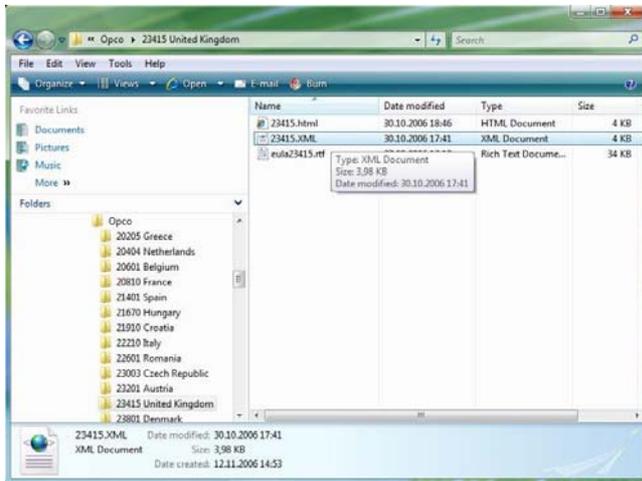
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2. Provide the modified MobileBroadbandProfile.xml file for setup_vmc.exe launcher.



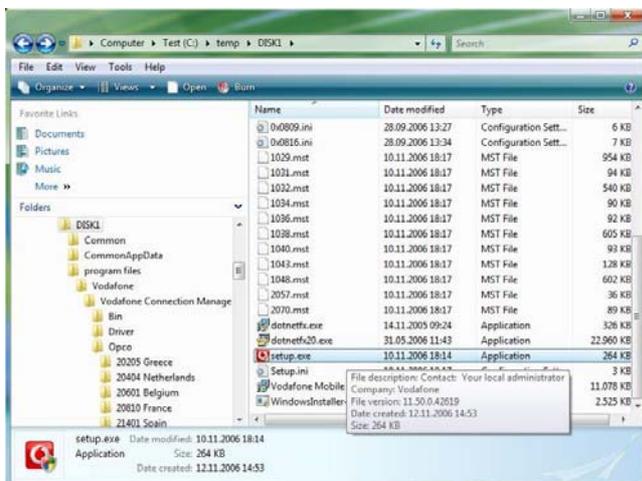
Copy the new MobileBroadbandProfile.xml file that should replace the existing file into the related folder of the source media. For example, navigate to the folder **DISK1\program files\Vodafone\Vodafone Mobile Broadband\Templates**, and replace the existing MobileBroadbandProfile.xml file.

3. Provide the modified file 23415.xml for setup_vmc.exe launcher.



Copy the modified 23415.xml file that should replace the existing file to the related folder of the source media. For example, navigate to the folder **DISK1\program files\Vodafone\Vodafone Mobile Broadband\Opco\23415 United Kingdom** and replace the existing 23415.xml file.

4. Run Setup_vmb.exe.



Execute setup_vmb.exe, e.g. by double-clicking it in Windows Explorer.

5. Conclusion

Appendix C: Using Transforms for Customisation

The installation process should now use the modified MobileBroadbandProfile.xml and 23415.xml files.

Further Information

The Vodafone support website contains software and documentation for all Vodafone data products.

- Vodafone Mobile Broadband application downloads
- VPN documentation
- FAQs
- How-to documents
- Etc...

<http://support.vodafone.com>

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