White Paper



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Vodafone Mobile Connect Enterprise Install Guide

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VMC Enterprise Install Guide

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

For an introduction into corporate rollouts of VMC, please refer to the "Standard Install Guide".

Comparison table of the Vodafone Mobile Connect installation related guides:

	Vodafone Mobile Connect Standard Install Guide	Vodafone Mobile Connect Enterprise Install Guide (this document):
Silent Installation command line parameters for msiexec.exe	\checkmark	
Silent Installation command line parameters for setup_vmc.exe	\checkmark	
Installing the Vodafone Mobile Connect software manually	\checkmark	
Frequently Asked Questions (FAQ) regarding the installation	\checkmark	
Scenarios for IT Administrators		\checkmark
Customisation of Vodafone Mobile Connect user profiles		✓
Using transforms for customisation		✓
ABC (Always Best Connected) configuration settings		\checkmark
Dial-Up: Create a default phonebook		✓
Supported VPN Clients		✓

Scenarios for IT Administrators

A. Installation of Vodafone Mobile Connect 9 on a computer

Certain preparations are necessary before installing the Vodafone Mobile Connect software on a computer to be used by all users of that computer.

1. Create a user profile file and/or a network operator file.

A user profile file can be created by manually installing the Vodafone Mobile Connect software on a computer, along with the first-time device installation for all the devices the users of the computer should use. The resulting MobileConnectProfile.xml file can be used as a template for all users. Consider the start mode of Vodafone Mobile Connect for your installations.

2. Create a Transform file to replace the user profile file, the network operator file and/or the dial-up phonebook in the MSI database.

To replace the file MobileConnectProfile.xml from step 1, the network operator file and/or the dial-up phonebook in the MSI database, a Transform database has to be generated. A tool for creating Transform databases is Orca from Microsoft – see chapter "using transforms for customisation". Any other tool which can deal with Transform files can also be used.

The steps to install the Vodafone Mobile Connect Software are:

1. Optional - Unattended installation of Microsoft's Windows Installer 3.1.

This is not necessary for a system with the latest Service Packs and Updates from Microsoft. This is also not necessary if you are using the setup_vmc.exe program for your silent installation, instead of using the installer msiexec.exe.

2. Optional - Unattended installation of Microsoft's .Net Framework 2.0.

The .Net Framework is not currently part of Windows XP, or is it part of a Service Pack. It therefore has to be installed separately on a Windows XP operating system. This is not necessary if you are using the setup.exe program for your silent installation, instead of using the installer msiexec.exe

In order to perform this installation using the setup.exe program, a parameter in the setup.ini needs to be modified. Please refer to the FAQ section entitled 'How to install the .Net Framework 2.0 silently'.

3. Unattended installation of the Vodafone Mobile Connect 9 software.

The unattended installation of the Vodafone Mobile Connect software using a Transform file is described in the chapters *Command Line Customisation* and *Using Transforms for Customisation*.

B. Vodafone Mobile Connect 9 and Limited Users

The Vodafone Mobile Connect software can be used by limited user accounts (user accounts without administrative privileges). However installation of Vodafone Mobile Connect 9 on a machine requires administrative privileges.

Embedded Customisation using a modified User Profile file

Introduction

When the Vodafone Mobile Connect software is started for the very first time after installation, a user profile XML file 'MobileConnectProfile.xml' is generated. No specific user input is required. This XML user profile can be used as a template: it can be edited and then replaced in the MSI database. To implement the Always Best Connected feature both the MobileConnect Profile and OpCo CCMNC.XML will need to be amended.

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

Creating and Authoring a customised User Profile

1. Install Vodafone Mobile Connect 9 on a test computer.

Install the Vodafone Mobile Connect software as described in the VMC 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 MobileConnectProfile.xml file.

Note

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

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

Save the file MobileConnectProfile.xml created by Vodafone Mobile Connect and located in the folder

Windows XP

<drive>:\Documents and Settings\<username>\Application Data\Vodafone\Vodafone Connection Manager\UserData

Or

Windows Vista <drive>:\Users\<username>\AppData\Roaming\Vodafone\Vodafone Connection Manager\UserData

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

4. Edit file MobileConnectProfile.xml.

Optional: Modify certain XML elements to match your requirements.

5. Create a Transform file.

Refer to the chapter "Using Transforms for Customisation".

6. Apply your Transform file to the Vodafone Mobile Connect 9 setup procedure.

Refer to the chapter "Using Transforms for Customisation".

Embedded Customisation using a modified Dial-Up Phonebook file

Introduction

If the feature 'Dial-Up' is set to 'true' in the OpCo XML file, a default dial-up phonebook 'VodafoneMobileConnect.pbk' for managing fixed line dial-up connections is generated during the installation of the Vodafone Mobile Connect software. If there is a OpCo specific phonebook (eg. 20810.pbk in 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 actioned using a Transform file. Please refer to the section **Using Transforms for Customisation** for more details.

Restriction

Dial-up connections can only be used if the maximum number of enabled modules (see element 'Modules' in the OpCo XML file) is less or equal to five.

Creating and authoring a customised dial-up phonebook

1. Install Vodafone Mobile Connect 9 on a test computer.

Install the Vodafone Mobile Connect software as described in the Standard Install Guide.

2. Create new entries in the phonebook 'VodafoneMobileConnect.pbk'

Start the Vodafone Mobile Connect software



Select "use new dial-up connection" to create a new phonebook entry

Select "OK" to save the new phonebook entry.

New Dial-up Connection Setting: Image: Company Country: France Area code: Image: Country: Area code: Image: Country: Dial-up phone number: Image: Country: Bassword: Display code Image: Country: Image: Country: Image: Country: Image: Country: Dial-up phone number: Image: Country: Dial-up device: Agare Systems HDA Modem Dial prefix: Image: Country: Dial prefix: Image: Country: Dial prefix: Image: Country: Dial oppendies: Image: Country: Image: Country: Networking: Sharing Image: Country: Image: Country:
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Connexion modem France Vodafone Mobile Broadband M Image: Connexion Modem My Company Agere Systems HDA Modem
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The button "Dial Settings" can be used to enter the system properties of the dial-up connection for additional settings.

Use "View dial-up connections" in the Vodafone Mobile Connect main view to see an overview of available connections.

The following tasks can be performed here:

- 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 after connecting successfully).

3. Protect phonebook entries from modification by the user

The file VodafoneMobileConnect.pbk is located in the folder

Windows XP									
<drive>:\Documents</drive>	and	Settings	<username></username>	Application	Data\Vodafone	\Vodafone	Connection	Manager\UserDat	a



Windows Vista

<drive>:\Users\<username>\AppData\Roaming\Vodafone\Vodafone Connection Manager\UserData

The Vodafone Mobile Connect software uses some entry attributes which are not supported by the the operation system. Therefore these attributes are saved in the comment value of a phonebook entry:

If 1, this entry was transferred from the OpCo specific phonebook.

- OPCO=1 or OPCO=0:
- Auto-Vpn =1 or AutoVpn=0:Default=1 or Default=0:
- If 1, the default VPN client is started automatically after connecting successfully. If 1, this is the default dial-up entry.
- Locked=1 or Locked=0:
- If 1, only the dial prefix can be modified by the user.

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

To set the attribute 'Locked' open file VodafoneMobileConnect.pbk in a text editor and mofify 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 chapter "Using Transforms for Customisation".

5. Apply your Transform file to the Vodafone Mobile Connect 9 setup procedure.

Refer to the chapter "Using Transforms for Customisation".

Using Transforms for Customisation

Introduction

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 machine. Transforms are useful for system administrators to provide variations of a single product without having to modify the original database. Multi-language installations are also performed by a default language contained in the MSI database and several transform files for the localized strings used by each language.

Creating Transforms

The following instructions are describing base steps to perform tasks with Microsoft's 'Orca' software to create Transforms. All tasks can actually be put into one single Transform.

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

Original file	<pre><working folder="">\program files\Vodafone\Vodafone Mobile Connect\Opco\23415 United Kingdom\23415.xml</working></pre>
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 later creating the Transform.

1. Start Orca.

- 2. From the File Menu, select Open.
- 3. Browse to the folder that contains your working copy of the Vodafone Mobile Connect software.
- 4. Select 'Vodafone Mobile Connect.msi'.
- 5. Click Open.
- 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, the Transform 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 Connect.msi' and 'setup.ini' are located.
- 5. Start the setup, e.g. by double-clicking 'setup_vmc.exe'.

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

- Start Orca.
 From the File Menu, select Open.
- 3. Browse to the folder that contains your working copy of the Vodafone Mobile Connect software.
- 4. Select 'Vodafone Mobile Connect.msi'.
- 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.

- Start Orca. 1.
- 2. From the File Menu, select Open.
- 3. Browse to the folder that contains your working copy of the Vodafone Mobile Connect software.
- 4. Select 'Vodafone Mobile Connect.msi'.
- 5. Click Open.
- 6. From the Transform menu, select 'New Transform'.
- 7. In the left pane, select the 'Registry' table.
- In the right pane, select the row which displays in the column 'Name' the name of the registry key to be modified. 8.
- 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 the Microsoft 'Orca' tool, in order to replace the sample file MobileConnectProfile.xml and the Opco file 23415.xml from the MSI database. If a user Profile file MobileConnectProfile.xml needs to be modified, the start mode of the Vodafone Mobile Connect software must also be changed. This is achieved by changing the MSI property VMCSTARTMODE for the user account that was used to install Vodafone Mobile Connect.

1. Install Microsoft's tool Orca.

Microsoft's tool Orca can be downloaded from the following Web page: http://support.microsoft.com/kb/255905/EN-US

2. Make a copy of the file "Vodafone Mobile Connect.msi" for backup.

- 3. Open Orca.exe.
- 4. From the File menu, select Open and browse to the file "Vodafone Mobile Connect.msi".

🔁 Vodafone Mobile Connect.msi -	Orca	
File Edit Tables Transform	Tools View Help	
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Tables ActionText ActinitExecuteSequence AdminExecuteSequence AdvtUSequence AdvtUSequence AdvtUSequence Appld AppSearch BBControl Billboard Binary BindImage CCPSearch CheckBox Class ComboBox CompLocator Complus Component Condition Control ControlCondition Contr		
Dialog		
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5. From the Transform menu, select New Transform.

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AppSearch -				
BBControl				
Billboard				
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CCPSearch				
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DuplicateFile		dlib.dll	dlib.dll	dlib.dll	110592	4.0.5.62	1037	8192	1292	
Environment		log4cx dll	log4cox dll	log4cyy dll	806982	41013102	1057	8193	1315	
Error		msycirt dll	msycirt.dll	msycirt.dll	77878	6.0.8168.0	1033	8193	1399	
EventManning		msycp50.dll	msvcn50.dll	msvcn50.dll	565760	5.0.0.7051	1033	8193	1402	
Extension		msvcrt20.dll	msvcrt20.dll	msvcrt20.dll	253952	2.11.0.0	1033	8193	1405	
Feature		msycrt40.dll	msvcrt40.dll	msvcrt40.dll	344064	4,22,0,0	1033	8193	1406	
FeatureComponents		params.dll	params.dll	params.dll	69742	4.0.5.62	1037	8192	1410	
File	E	reakey.dll	reakey.dll	reakey.dll	28771	4.0.5.62	1033	8192	1412	
FileSEPCatalog		ngspawner.exe	ngspawner.e	NGSPA~1.E.	40960			8192	1416	
Font		ngspwnrsrvc.exe	ngspwnrsrvc	NGSPW~1.E	53248			8192	1417	
HelpFile	-	atm.svs	ATMDriver	ATM.svs	233756	4.0.5.62	1033	8192	1255	
HelpFileToNamespace		messages.xml20	Bin	Messages.XML	12073			8192	282	
HelpFilter		devwiz.dll	DevWiz	DevWiz.dll	94208	1.4.1.0	1033	8192	99	
HelpFilterToNamespace		quinettgain.dll	GUINettGain	GUINET~1.DL	508023	4.0.5.62	1033	8192	1293	
HelpNamespace		hhactivex.dll	HHActiveXDII	HHACTI~1.D	458752	13.10.606.0	1033	8192	104	
HelpPlugin		erit68.inf2	IRvistaT68i	erit68.inf	8631			8192	14	
ISDFLInfo		erit68.inf	IRxpT68i	erit68.inf	8631			8192	106	
ISSelfReg		erit68.inf1	IRw2kT68i	erit68.inf	8631			8192	191	
ISSetupFile		interop.dwupdateserviceli	InteropDWUp	INTERO~1.DL	81920	1.0.0.0	127	8192	97	
Icon		interop.ngclnapilib.dll	InteropNGCL	INTERO~2.DL	12800	1.0.0.0	127	8192	100	
IniFile		messages_cs_cz.xml	LanguagecsCZ	MESSAG~1.X	12528			8192	274	
IniLocator		messages_da_dk.xml	LanguagedaDK	MESSAG~1.X	11799			8192	196	
InstallExecuteSequence	-	messages_de_de.xml	LanguagedeDE	MESSAG~1.X	13086			8192	277	,
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7. In the right pane, select the "MobileConnectProfile.xml" row.

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DuplicateFile		sms.exe1	SMS1	SMS.exe	1769472	9.0.0.3786	0	8192	903
Environment		tsm.svs	TSMDriver	TSM.svs	36419	4.0.5.62	1033	8192	1264
Error		mobileconnectprofile.xml	Templates	MOBILE~1.X	188			8192	285
EventMapping		uidgenerator.dll	UIDGenerator	UIDGEN~1.D	24681	4.0.5.62	1033	8192	1413
Extension		lgusbbus.sys	USB2kLG	lgusbbus.sys	21344	4.6.0.0	1033	8193	766
Feature		usbmot2000.inf	USB2kMotor	USBMOT~1.I	10719			8192	770
FeatureComponents	-	nmwcd.sys	USB2kNokiaD	nmwcd.sys	125813	5.2.13.6	1033	8193	774
File		sscdbus.sys	USB2kSamsu	sscdbus.sys	80272	4.24.0.2700	1033	8193	785
FileSFPCatalog		suscom.sys	USB2kSonyEri	SUSCOM.SYS	40448	1.6.0.2	1033	8193	804
Font		lgusbbus.sys1	USBvistaLG	Igusbbus.sys	21344	4.6.0.0	1033	8193	813
HelpFile		usbmot2000.inf1	USBvistaMot	USBMOT~1.I	10719			8192	817
HelpFileToNamespace		nmwcd.sys1	USBvistaNoki	nmwcd.sys	125813	5.2.13.6	1033	8193	821
HelpFilter		sscdbus.sys1	USBvistaSam	sscdbus.sys	80272	4.24.0.2700	1033	8193	831
HelpFilterToNamespace		suscom.sys1	USBvistaSony	SUSCOM.SYS	40448	1.6.0.2	1033	8193	849
HelpNamespace		lgusbbus.sys2	USBxpLG	lgusbbus.sys	21344	4.6.0.0	1033	8193	858
HelpPlugin		usbmot2000.inf2	USBxpMotor	USBMOT~1.I	10719			8192	862
ISDFLInfo		nmwcd.sys2	USBxpNokiaD	nmwcd.sys	125813	5.2.13.6	1033	8193	866
ISSelfReg		sscdbus.sys2	USBxpSamsu	sscdbus.sys	80272	4.24.0.2700	1033	8193	876
ISSetupFile		suscom.sys2	USBxpSonyEri	SUSCOM.SYS	40448	1.6.0.2	1033	8193	894
Icon		vmc.baseservices.dataacc	VMCBaseServ	VMCBAS~2.D	356352	9.0.0.3786	0	8192	80
IniFile		vmc.baseservices.logengi	VMCBaseServ	VMCBAS~3.D	28672	9.0.0.3786	0	8192	84
IniLocator		vmc.baseservices.outlook	VMCBaseServ	VMCBAS~4.D	24576	9.0.0.1	0	8192	85
InstallExecuteSequence	-	vmc.baseservices.smscon	VMCBaseServ	VM9BA3~1.D	65536	9.0.0.3786	0	8192	86

8. Select the column "FileSize" and enter the file size of the new "MobileConnectProfile.xml" file.

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Tables Directory		File	Compone		FileSi	Version	Langu	Attribu	Seque
Driocator		sms eve	SMS	SMS eve	1760472	9 0 0 3786	0	8102	900
DuplicateFile		sms evel	SMS1	SMS eve	1769472	9003786	Ő	8192	903
Environment		tsm svs	TSMDriver	TSM svs	36419	40562	1033	8192	1264
Frror		mobileconnectprofile.xml	Templates	MOBILE~1.X	188			8192	285
EventMapping		uidgenerator.dll	UIDGenerator	UIDGEN~1.D	24681	4.0.5.62	1033	8192	1413
Extension	- m	lausbbus.svs	USB2kLG	lausbbus.svs	21344	4.6.0.0	1033	8193	766
Feature		usbmot2000.inf	USB2kMotor	USBMOT~1.I	10719			8192	770
FeatureComponents		nmwcd.sys	USB2kNokiaD	nmwcd.sys	125813	5.2.13.6	1033	8193	774
File	E	sscdbus.sys	USB2kSamsu	sscdbus.sys	80272	4.24.0.2700	1033	8193	785
FileSFPCatalog		suscom.sys	USB2kSonyEri	SUSCOM.SYS	40448	1.6.0.2	1033	8193	804
Font		lgusbbus.sys1	USBvistaLG	Igusbbus.sys	21344	4.6.0.0	1033	8193	813
HelpFile		usbmot2000.inf1	USBvistaMot	USBMOT~1.I	10719			8192	817
HelpFileToNamespace		nmwcd.sys1	USBvistaNoki	nmwcd.sys	125813	5.2.13.6	1033	8193	821
HelpFilter		sscdbus.sys1	USBvistaSam	sscdbus.sys	80272	4.24.0.2700	1033	8193	831
HelpFilterToNamespace		suscom.sys1	USBvistaSony	SUSCOM.SYS	40448	1.6.0.2	1033	8193	849
HelpNamespace		lgusbbus.sys2	USBxpLG	lgusbbus.sys	21344	4.6.0.0	1033	8193	858
HelpPlugin		usbmot2000.inf2	USBxpMotor	USBMOT~1.I	10719			8192	862
ISDFLInfo		nmwcd.sys2	USBxpNokiaD	nmwcd.sys	125813	5.2.13.6	1033	8193	866
ISSelfReg		sscdbus.sys2	USBxpSamsu	sscdbus.sys	80272	4.24.0.2700	1033	8193	876
ISSetupFile		suscom.sys2	USBxpSonyEri	SUSCOM.SYS	40448	1.6.0.2	1033	8193	894
Icon		vmc.baseservices.dataacc	VMCBaseServ	VMCBAS~2.D	356352	9.0.0.3786	0	8192	80
IniFile		vmc.baseservices.logengi	VMCBaseServ	VMCBAS~3.D	28672	9.0.0.3786	0	8192	84
IniLocator		vmc.baseservices.outlook	VMCBaseServ	VMCBAS~4.D	24576	9.0.0.1	0	8192	85
InstallExecuteSequence	-	vmc.baseservices.smscon	VMCBaseServ	VM9BA3~1.D	65536	9.0.0.3786	0	8192	86

9. In the right pane, select the row which displays filename "23415.xml" in the third column.

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Tables Directory	•	File ngcInapi_sdk.dll	Compone NGCInAPIDLL	FileName NGCLNA~1	FileSi 163840	Version 4.0.5.66	Langu 1033	Attribu 8192	Seque 1256	
Director		ngservice.dii	NGService.dil	NGSERV~1.D	49132	1.0.0.4	1055	0192	1400	ł
Environment		designet eve	Nospawner.e	desinct ave	43030	2 11 2 1 2051	1022	9102	1254	
Environment		nettrain1200 c ava	NettGain1200	NETTGA 1 E	1229014	40562	0 1022	9102	1407	
EventManning		dpa2000 eve	NettGainDME	dpe2000 eve	22016	2 11 2 1 2 7 2 7 2	1022	8102	1262	
Extension		0205 xml	OPC020205	20205 XMI	3000	5.11.5.15205	1055	8192	82	
Feature		0404 xml	OPCO20404	20404 XMI	4079			8192	77	
FeatureComponents		0601 xml	OPC020601	20601 XMI	4000			8192	19	
File	E	0810.xml	OPCO20810	20810.XMI	3955			8192	9	
FileSEPCatalog		1401.xml	OPC021401	21401.XMI	4061			8192	113	
Font		1670.xml	OPCO21670	21670.XML	4052			8192	117	
HelpFile		1910.xml	OPC021910	21910.XMI	3968			8192	120	
HelpFileToNamespace		2210.xml	OPC022210	22210.XMI	4013			8192	41	
HelpFilter		2601.xml	OPC022601	22601.XML	4170			8192	124	
HelpFilterToNamespace		3003.xml	OPCO23003	23003.XML	4046			8192	291	
HelpNamespace		3201.xml	OPCO23201	23201.XML	4230			8192	50	
HelpPlugin		3415.xml	OPCO23415	23415.XML	4079			8192	46	1
ISDFLInfo		_3801.xml	OPCO23801	23801.XML	4123	1		8192	127	
ISSelfReg		380171.xml	OPCO2380171	2380171.XML	4136			8192	294	
ISSetupFile		4008.xml	OPCO24008	24008.XML	4006			8192	131	
Icon		_4405.xml	OPCO24405	24405.XML	3957			8192	134	
IniFile		_4802.xml	OPCO24802	24802.XML	4029			8192	138	
IniLocator		_6202.xml	OPCO26202	26202.XML	4245			8192	34	
InstallExecuteSequence	-	_6801.xml	OPCO26801	26801.XML	4114			8192	43	

10. Select the column "FileSize" and enter the file size of the new "23415.xml" file.

e Edit Tables Transform	To	ols View Help							
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ables	•	File	Compone	FileName	FileSi	Version	Langu	Attribu	Seque
Driectory		ngcinapi_sok.oli	NGCINAPIDEL NGConvice dll	NGCENA~I	105040	4.0.3.00	1055	9102	1230
Director		ngservice.un	NGService.di	NGSERV~1.D	45152	1.0.0.4	1033	0192	1400
Environment		design and and	Nospawner.e	desingt ave	43030	2 11 2 1 2051	1022	9102	1254
Environment		nettasin1200 c.ovo	NettGain1200	NETTCA 1 E	1229014	40562	0 1022	9102	1407
EventManning		dpo2000 evo	NettGainDNE	dpo2000 eve	22016	2 11 2 12202	1022	9102	1262
Eventiviapping	-	0205 uml	OBCO20205	20205 VM	22010	5.11.5.15205	1055	9102	92
Extension		0404 ympl	000020205	20203.XIVIL	4070			9102	02
FeatureComponents		0601 vml	OPC020404	20404.XIVIL	4079			9102	10
File	=	0010	000000000000000000000000000000000000000	20001.XIVIL	2055			9102	15
FileSEDCatalog		1401 vml	OPC020810	20010.AIVIL	4061			9102	112
Filest		1670 yml	OPC021401	21401.XIVIL	4001			9102	117
HeleFile		1010	000021070	21070.XIVIL	2069			9102	120
HelpFileToNamorpaco		_1910.xml	000021910	22210 VM	4012			9102	120
HelpFileToNamespace		2601	000022210	22210.AML	4015			0192	124
HelpFilterTeNamernage		2001.xml	000022001	22001.AIVIL	41/0			9102	201
Helphilterronamespace		_3005.xml	000023003	22005.AIVIL	4040			9102	50
HelpNamespace		_3201.xml	000023201	25201.AIVIL	4250	-		0192	30
		2801 years	000023415	20410-AIVIL	4079	J	0	9102	127
ISOFLINIO ISColfDog		290171 vml	OPC025801	22001.AIVIL	4125			9102	204
SetupEile		_3001/1.xml	00002380171	2300171.AIVIL	4006			9102	121
loop		4005.0001	OPC024000	24000.XIVIL	2057			9102	134
IniFile			OPC024403	24403 XML	4020			8102	139
ini ocator		6202 vml	000024802	26202 VM	4025			9102	24
InstallExecuteSequence	-	6801.xml	OPC026801	26801.XML	4114			8192	43

11. In the left pane, select the "ISSetupFile" table.

🔁 Vodafone Mobile Connect.n	nsi (tra	insformed by Unti	tled) - Orca	and the second second		
File Edit Tables Transform	n To	ols View Help				
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Tables		ISSetupFile	FileName	Stream		
Directory		SetupFile1	22601.XML	[Binary Data]		
DrLocator		SetupFile2	20601.XML	[Binary Data]		
DuplicateFile		SetupFile3	65501.XML	[Binary Data]		
Environment		SetupFile4	53001.XML	[Binary Data]		
Error		SetupFile5	50503.XML	[Binary Data]		
EventMapping		SetupFile6	23003.XML	[Binary Data]		
Extension	- (11)	SetupFile7	21670.XML	[Binary Data]		_
Feature		SetupFile8	20810.XML	[Binary Data]		_
FeatureComponents		SetupFile9	20404.XML	[Binary Data]		E
File	=	SetupFile10	20205.XML	[Binary Data]		
FileSFPCatalog		SetupFile11	27201.XML	[Binary Data]		
Font		SetupFile12	26801.XML	[Binary Data]		
HelpFile		SetupFile13	26202.XML	[Binary Data]		
HelpFileToNamespace		SetupFile14	23415.XML	[Binary Data]		
HelpFilter		SetupFile15	22210.XML	[Binary Data]		
HelpFilterToNamespace		SetupFile16	21401.XML	[Binary Data]		_
HelpNamespace		SetupFile17	23801.XML	[Binary Data]		
HelpPlugin		SetupFile18	2380171.XML	[Binary Data]		
ISDFLInfo		SetupFile19	23201.XML	[Binary Data]		
ISSelfReg		SetupFile20	24405.XML	[Binary Data]		
ISSetupFile		SetupFile21	24802.XML	[Binary Data]		
Icon		SetupFile22	27001.XML	[Binary Data]		
IniFile		SetupFile23	27602.XML	[Binary Data]		
IniLocator		SetupFile24	27801.XML	[Binary Data]		
InstallExecuteSequence	-	SetupFile25	28001.XML	[Binary Data]		-
Tables: 99		ISSetupFile - 35 r	DWS		No column is selected.	

12. In the right pane, select the row which displays the filename "23415.xml" in the second column.

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Tables		ISSetupFile	FileName	Stream		
Directory		SetupFile1	22601.XML	[Binary Data]		- 11
DrLocator		SetupFile2	20601.XML	[Binary Data]		
DuplicateFile		SetupFile3	65501.XML	[Binary Data]		
Environment		SetupFile4	53001.XML	[Binary Data]		
Error		SetupFile5	50503.XML	[Binary Data]		
EventMapping		SetupFile6	23003.XML	[Binary Data]		
Extension	- m	SetupFile7	21670.XML	[Binary Data]		
Feature		SetupFile8	20810.XML	[Binary Data]		
FeatureComponents		SetupFile9	20404.XML	[Binary Data]		
File	=	SetupFile10	20205.XML	[Binary Data]		
FileSFPCatalog		SetupFile11	27201.XML	[Binary Data]		
Font		SetupFile12	26801.XML	[Binary Data]		
HelpFile		SetupFile13	26202.XML	[Binary Data]		
HelpFileToNamespace		SetupFile14	23415.XML	[Binary Data]		
HelpFilter		SetupFile15	22210.XML	[Binary Data]		
HelpFilterToNamespace		SetupFile16	21401.XML	[Binary Data]		
HelpNamespace		SetupFile17	23801.XML	[Binary Data]		
HelpPlugin		SetupFile18	2380171.XML	[Binary Data]		
ISDFLInfo		SetupFile19	23201.XML	[Binary Data]		
ISSelfReg		SetupFile20	24405.XML	[Binary Data]		
ISSetupFile		SetupFile21	24802.XML	[Binary Data]		
Icon		SetupFile22	27001.XML	[Binary Data]		
IniFile		SetupFile23	27602.XML	[Binary Data]		
IniLocator		SetupFile24	27801.XML	[Binary Data]		
InstallExecuteSequence	-	SetupFile25	28001.XML	[Binary Data]		
Tables: 99		ISSetupFile - 35 rd	DWS		ISSetupFile - String[72], Key, Nullable	10

13. Read the binary stream for file 23415.xml by clicking on to the 'Stream' column. Select the modified file with the Browse button.

File Edit Tables Transform	n Ta	ols View Help		
D 🚅 🖬 🐰 🏷 🖻 💼 🎊	*	•• C 🛒 🖶		
Tables Directory DrLocator DuplicateFile Environment Error EventMapping Extension Feature FeatureOmponents File FileSPFOctalog Font HelpFile HelpFileToNamespace HelpFilterToNamespace		ISSetupFile File SetupFile1 2260 SetupFile2 2060 SetupFile3 6550 SetupFile4 5300 SetupFile5 9050 SetupFile6 2300 SetupFile7 2167 SetupFile8 2081 SetupFile1 2020 SetupFile1 2202 SetupFile1 2202 SetupFile1 2260 SetupFile1 2220 SetupFile1 2221 SetupFile1 2221 SetupFile1 2221 SetupFile16 2240 SetupFile16 2241 SetupFile17 2380	Ame Stream XML [Binary Data] XML [Binary Data] XML [Binary Data] XML [Binary Data] XML Edit Binary Stream XML Flename Flename Browse MI Action Browse MI Write binary to filename OK Cancel	
reipPrugin ISDFLInfo ISSetupFie Icon IniFile IniLocator InstallExecuteSequence		Setuprile18 2380 Setuprile19 2320 Setuprile20 2440 Setuprile21 2480 Setuprile22 2700 Setuprile23 2760 Setuprile24 2780 Setuprile25 2800	A.XML [Binary Data] XML [Binary Data]	

14. In the left pane, select the "Property" table.

🔁 Vodafone Mobile Connect.m	si (tra	nsformed by Untitled) - Orca	
File Edit Tables Transform	То	ols View Help	
	÷		
Tables		Property	Value
Patch		IS_VMC3_INSTALLED	0
PatchPackage		IS_VMC4_INSTALLED	0
ProgId		IS_VMC5_INSTALLED	0
Property		IS_VMC6_INSTALLED	0
PublishComponent		IS_VMC7_INSTALLED	0
RadioButton		IS_VMC8_INSTALLED	0
RegLocator		DiskPrompt	[1]
Registry		UpgradeCode	{7B30C30B-7651-4A0F-8F56-41CF5A32F9F5}
RemoveFile		ALLUSERS	1
RemoveIniFile		MDAC28_SETUP_VER	2.80.1022.3
RemoveRegistry		MDAC28_INSTALL_CMD	/q /c:"setup.exe /qn1"
ReserveCost		MDAC28_INSTALL_SEQ	EXEC
SFPCatalog		MDAC28_REBOOT_NOW	0
SelfReg		REBOOTPROMPT	NotSuppress
ServiceControl		BMINSTALLATIONNAME.36ADFBF2 2323 488B A7ED BBEC5	Vodaphone Dashboard
ServiceInstall		BMINSTALLCHECKMSIRETURN.36ADFBF2 2323 488B A7ED	0
Shortcut		BMINSTALLMSIRETURN.36ADFBF2 2323 488B A7ED BBEC5F	. 0
Signature		BMREMOVEMSIRETURN.36ADFBF2_2323_488B_A7ED_BBEC5	0
SxsMsmGenComponents		ALLOWINSTALL.36ADFBF2 2323 488B A7ED BBEC5FABE935	No
TextStyle		ISCHECKFORPRODUCTUPDATES	0
TypeLib	-	ApplicationUsers	AllUsers
UIText	-	AgreeToLicense	No
Upgrade		IsMaintenance	Change
Verb		SetupType	Typical
_Validation	-	_IsSetupTypeMin	Standard
Tables: 99		Property - 167 rows	No column is selected.

15. In the right pane, select the row which displays the property name "VMCSTARTMODE" in the first column.

File Edit Tables Transform	To	ols View Help		
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Tables Patch PatchPackage Proold	•	Property READOPTIMIZERSTATE OPCOCONFIG_ASKACCOUNTTYPE OPCOCONFIG_ASKINSTALLATIONPATH	Value ByteMobile false true	
Property PublishComponent RadioButton		OPCOCONFIG_ASKREPORTS OPCOCONFIG_ASKTCPSETTINGS OPCOCONFIG_CREATEDESKTOPSHORTCUTS OPCOCONFIG_CONFIG_CONTENT	false false true 121072	
Registry RemoveFile RemoveIniFile		OPCOCONFIG_OPTIMIZE OPCOCONFIG_OPTIMIZE OPCOCONFIG_REPAID OPCOCONFIG_REPORTINGTYPE	false false	
RemoveRegistry ReserveCost SFPCatalog		OPCOCONFIG_SMS OPCOCONFIG_TCP1323OPTS OPCOCONFIG_TCPMAXCONNECTRETRANSMISSIONS OPCOCONFIG_TCPMINDOWSIZE	true 3 5 121072	
ServiceControl ServiceInstall Shortcut		OPCOCONFIG_WLAN OPCOCONFIG_ASKEULA IsSetupTypeMin NAME PROP	true true no	
Signature SxsMsmGenComponents TextStyle		INFO_TEXT_21 TCPIP_NAME_PROP READOPCOFILE	0 0 true	
TypeLib UIText Upgrade	ш	VMCSTARTMODE OPCOCONFIG_OPTIMISERCLIENT DWUSLANG	0 ByteMobile 1033	
Verb _Validation	-	DWUSMANAGER InstallShieldTempProp	1 0	_

16. Enter the value 2 (Mini-Window) in the column "Value", or 1 (Main window), or 3 (minimized in Windows Notification Area), but <u>not</u> 0 (first-time device installation).

File Edit Tables Transform	n To	ols View Help		
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Control of the service of the s	**	READOPTIMIZERSTATE OPCOCONFIG_ASKACCOUNTTYPE OPCOCONFIG_ASKACCOUNTTYPE OPCOCONFIG_ASKEPORTS OPCOCONFIG_SCREPORTS OPCOCONFIG_SCREPORTS OPCOCONFIG_CREATEDESKTOPSHORTCUTS OPCOCONFIG_CREATEDESKTOPSHORTCUTS OPCOCONFIG_REPAID OPCOCONFIG_REPAID OPCOCONFIG_REPAID OPCOCONFIG_TCPI33OPTS OPCOCONFIG_TCPI33OPTS OPCOCONFIG_TCPI33OPTS OPCOCONFIG_TCPI33OPTS OPCOCONFIG_TCPIA3OPTS OPCOCONFIG_TCPIA3OPTS OPCOCONFIG_TCPIA3OPTS OPCOCONFIG_TCPIAACONNECTRETRANSMISSIONS OPCOCONFIG_TCPIAACONNECTRETRANSMISSIONS OPCOCONFIG_TCPIAACONNECTRETRANSMISSIONS OPCOCONFIG_TCPIAACONNECTRETRANSMISSIONS OPCOCONFIG_TCPIAACONNECTRETRANSMISSIONS OPCOCONFIG_TCPIAACONNECTRETRANSMISSIONS OPCOCONFIG_TCPIAACONNECTRETRANSMISONS	Value ByteMobile false true false true false true 131072 false true 3 5 131072 true 0 0 0 0	
TypeLib UIText Upgrade Verb _Validation	E	VMCSTARTMODE OPCOCONFIG_OPTIMISERCLIENT DWUSLANG DWUSMANAGER InstallShieldTempProp	0 ByteMobile 1033 1 0	

17. Generate a Transform file by selecting "Generate Transform..." from the Transform menu.

ile Edit Tables 1	ransform Too	ols View Help	-					
0 🗃 🖬 🐰 🖣	New Transf	orm						
Tables	Apply Trans	sform	E	Kev	Name	v	Component	18
Patch	View Patch		.	SOFTWARE\Microsoft\Windows\	ituito		downlevel manifest.74FD3CE6 2	1
PatchPackage	VICOU P OCCIL			SOFTWARE\Microsoft\Windows\			downlevel payload.74FD3CE6 2	T
Progld	Generate Tr	ansform		SOFTWARE\Microsoft\Windows\			nosxs.74FD3CF6 2A8D 0F9C FF1	3
Property	Close Trans	form		SOFTWARE\Microsoft\Windows\			downlevel manifest.D2730D3F 3	
PublishComponer	close mans		1	SOFTWARE\Microsoft\Windows\			downlevel manifest.98CB24AD	
RadioButton	Transform	Properties		SOFTWARE\Microsoft\Windows\			downlevel pavload.98CB24AD 5	
RegLocator		100 1103/3/20/00 4		SOFTWARE\Microsoft\Windows\			nosxs.98CB24AD 52FB DB5F FF	
Registry		reg downley 2	2	SOFTWARE\Microsoft\Windows\			downlevel manifest.63E949F6 0	
RemoveFile		reg downley 2	2	SOFTWARE\Microsoft\Windows\			downlevel manifest.9BAE13A2	
RemoveIniFile		reg_downlev 2	2	SOFTWARE\Microsoft\Windows\			downlevel_payload.9BAE13A2_E	
RemoveRegistry		reg nosxs.98 2	2	SOFTWARE\Microsoft\Windows\			nosxs.9BAE13A2 E7AF D6C3 FF	
ReserveCost		reg downley 2	2	SOFTWARE\Microsoft\Windows\			downlevel manifest.68B7C6D9	
SFPCatalog		Registry41 2	2	SOFTWARE\Vodafone\WwanSdk			PcTelSdk	
SelfReg		Registry2.511 2	2	Software\Vodafone\WLANClient	InstallDir	[I	Registry.511CD534_7936_4D43_8	
ServiceControl		Registry5.511 2	2	Software\Tatara	-		Registry.511CD534_7936_4D43_8	
ServiceInstall		Registry4.511 2	2	Software\Vodafone\WLANClient	LocationDB	Lo	Registry.511CD534_7936_4D43_8	
Shortcut		Registry3.511 2	2	Software\Vodafone\WLANClient	OpCoConfig	0	Registry.511CD534_7936_4D43_8	
Signature		Registry1.511 2	2	Software\Vodafone\WLANClient	Wisp	Wi	Registry.511CD534_7936_4D43_8	
SxsMsmGenCompor	nents	Registry6.511 2	2	Software\Vodafone\WLANClient	EnableLogging	#0	Registry.511CD534_7936_4D43_8	
TextStyle		Registry23.C3 2	2	SOFTWARE\Microsoft\Windows\	%SystemRoot%\system3	#0	RegEntry.C3A146F5_4B48_11D5	
TypeLib	-	_2DB291D66B ()	AppID\ISDownloadManager.EXE	AppID	{F	ISDM.exe.C3A146F5_4B48_11D5	
UIText	-	_FA5E9CC90 ()	AppID\{FB74D869-2D98-447A-A9		IS	ISDM.exe.C3A146F5_4B48_11D5	
Upgrade		_6F76C77685 0)	CLSID\{621D3650-F1D3-414C-97F	AppID	{F	ISDM.exe.C3A146F5_4B48_11D5	
Verb		_404259779F5 ()	CLSID\{623E415A-22EF-4DAA-A2F	AppID	{F	ISDM.exe.C3A146F5_4B48_11D5	
_Validation	-	_B188413005 ()	CLSID\{915C2CEB-216B-4B7C-89E	AppID	{F	ISDM.exe.C3A146F5_4B48_11D5	

18. Save your modifications.

	** ** 🖻 🛒					
Tables Patch	Save Transform	n As		antes-		ponent level manifest.74ED3CE6 2
PatchPackage	Save in:	DISK1	-	G 👌 📂 🛄 -		level_payload.74FD3CE6_2
ProgId		-			lane in	74FD3CE6_2A8D_0E9C_FF1
Property	(Per	Name	Date modified	Туре	Size 🔺	level_manifest.D2730D3F_3
PublishComponent	2	Common	11/19/2006 12:58	File Folder		level_manifest.98CB24AD
RadioButton	Recent Places	CommonAnnD	ata 11/10/2006 12:58	File Folder		level_payload.98CB24AD_5
ReqLocator		CommonAppor	11 (10/2005 12:50	FILE LL		98CB24AD_52FB_DB5F_FF
Registry		program files	11/19/2006 12:58	File Folder		level_manifest.63E949F6_0
Removerile	Nome of the local division of the local divi	System32	11/19/2006 12:58	File Folder		level_manifest.9BAE13A2
RemoveRegistry	Desktop	🍓 Windows	11/19/2006 12:58	File Folder	=	ORAF13A2 E7AE D6C3 EE
ReserveCost	1	1029.mst	11/17/2006 8:04 PM	MST File		level manifest 68B7C6D9
SEPCatalog	ALC:	1031.mst	11/17/2006 8:04 PM	MST File		Sdk
SelfReg	tert	1022 met	11/17/2006 8:04 PM	MST File		rv.511CD534 7936 4D43 8
ServiceControl	lest		11/17/2000 0.04 PM	NOT THE		ry.511CD534_7936_4D43_8
ServiceInstall		1034.mst	11/17/2006 8:04 PM	MST File		try.511CD534_7936_4D43_8
Shortcut		1036.mst	11/17/2006 8:04 PM	MST File		ry.511CD534_7936_4D43_8
Signature	Computer	1038.mst	11/17/2006 8:04 PM	MST File		ry.511CD534_7936_4D43_8
SxsMsmGenComponents		1040.mst	11/17/2006 8:04 PM	MST File		ry.511CD534_7936_4D43_8
TextStyle	NT	10/3 mct	11/17/2006 8-04 PM	MST File	-	htry.C3A146F5_4B48_11D5
TypeLib	1 - C	<	III III	MOT THE	F	exe.C3A146F5_4B48_11D5
Ullext	Network	_				exe.C3A146F5_4B48_11D5
Upgrade		File name: M	ly Transform I mst	-	Save	exe.C3A146F5_4B48_11D5
Verb						exe.C3A140F5_4B48_11D5

19. Close the Transform file "MyTransform.mst".

File Edit Tables Ti	ransform Too	ols View Help					
	New Trans	form	1				
Tablaa	Apply Tran	sform	H	Kau	Nomo		Component
Datch	10. 0.11		PT-	SOFTWARE Microsoft Windows	Name	¥	downlavel manifest 74ED2CE6 2
PatchPackage	view Patch		Ŀ.,	SOFTWARE(Microsoft)Windows)			downlevel_maintest.74PD3CE6_2
Progld	Generate T	ransform		SOFTWARE\Microsoft\Windows\			norve 7/ED3CE6 208D 0E0C EE1
Property	Class Trees	-f		SOFTWARE(Microsoft) Windows(downlovel manifest D2720D2E 2
PublishComponer	Close Trans	siorm		SOFTWARE (Microsoft) Windows)			downlevel_manifest.02750051_5
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ReceiveCost		reg_downley		SOFTWARE (Microsoft) Windows)			downlevel manifect 6887C6D9
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SelfReg		Registry 2 511 2		Software\Vodafone\WI ANClient	InstallDir	п	Registry 511(D534 7036 4D43 8
ServiceControl		Registry5.511 2		Software\Tatara		[1	Registry 511CD534_7936_4D43_8
ServiceInstall		Registry 511 2		Software\Vodafone\WI ANClient	LocationDR	10	Registry 511 CD534 7036 4D43 8
Shortcut		Registry 3 511 2		Software/Vodafone/WI ANClient	OnCoConfig	0	Registry 511 CD534 7036 4D43 8
Signature		Registry 511 2		Software\Vodafone\WLANClient	Wisp	Wi	Registry 511CD534 7936 4D43 8
SysMsmGenComnon	ents	Registry 511 2		Software\Vodafone\WLANClient	Enablel ogging	#0	Registry 511CD534 7936 4D43 8
TextStyle	cites	Registry23 C3 2		SOFTWARE\Microsoft\Windows\	%SystemBoot%\system3	#0	RegEntry C3A146E5 4B48 11D5
TypeLib		2DB291D66B		AppID\ISDowploadMapager EXE	AnnID	{F	ISDM eye C34146E5 4B48 11D5
UlText	E	EA5E9CC90		AppID\{EB74D869-2D98-447A-A9	, pp.0	IS	ISDM.exe.C3A146F5 4B48 11D5
Upgrade		6F76C77685 0		CLSID\{621D3650-F1D3-414C-97F	AppID	{F	ISDM.exe.C3A146F5 4B48 11D5
Verb		404259779E5 0		CLSID\{623E415A-22EF-4DAA-A2E	AppID	(F	ISDM.exe.C3A146F5 4B48 11D5
Validation	-	B188413005 0		CLSID\{915C2CEB-216B-4B7C-89E	AppID	{F	ISDM.exe.C3A146F5 4B48 11D5

20. Exit Orca.exe.

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Open	Ctrl+0	
openni	Siles	
Save	Ctri+S	
Save As		
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1 Vodafone Mobile Connect.ms	i	
Exit		
BindImage		
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CheckBox		
Class		
ComboBox		
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Component		
Condition		
Control		
ControlCondition		
ControlEvent		
CreateFolder		
Distan		
Dialog	I	
Tables: 99	No table is selected.	No column is selected.

Applying Transform files with setup_vmc.exe

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

1. Apply the Transform file.

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 as in the following example.

[Info]	
Name=INTL	
version=1.00.000	
DiskSpace=8000 ;DiskSpace requirement in KB	E
[startup]	
Script CSW 01905-1	
Scriptver=1,0,0,1	
OctNetOptionalInstallIfSilent=N	
Dnupgrade=1	
ReguireExactLangMatch=0404,0804	
Product=Vodafoné Mobile Connect	
PackageName=Vodafone Mobile Connect.msi	
EnableLangD1g=Y	
LogResults=Y	
JI=1000	
Jona Internatice=N	
aroduct/orcion=0.0.0.2726	
DotNetVersion=v2.0.50727	
DotNetSPRequired=	
JseDotNetUI=N	
DotNetCoreSetupUILang=	
DotNetLangPacks=	
JotNetFxCmd=	
JOENEELANGPACKEMD=	-

Note

Any Transform file can also be applied by setting the command line parameter TRANSFORMS, either with setup_vmc.exe or with the installer msiexec.exe.

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

Copy the new file MobileConnectProfile.xml, which should replace the existing one, to the related folder of the source media. For example, navigate to the folder "DISK1\program files\Vodafone\Vodafone Connection Manager\Templates", and replace the existing file MobileConnectProfile.xml.

ile Edit View Tools Help				
🖌 Organize 🔻 🟢 Views 🔻 🚱 Burn				_
avorite Links Documents	Name CustomHelpSupport.h HotLine.html	Date modified 17.08.2006 15:48 17.08.2006 15:48	Type HTML Document HTML Document	Size 1 k 4 k
Pictures Music More »	MobileConnectProfile MobileConnectProfile SmsProfile.XML Usage.XML VodefoneMobileConnectProfile	17.08.2006 15:48 17.08.2006 15:48 17.08.2006 15:48 MobileConnectProfile.XI Type: XML Document	XML Document XML Document VIL bcument	11
 temp DISK1 Common CommonAppData program files Vodafone Vodafone Bin Driver Opco Optimization Client Templates WLANClient 		Date modified: 17.08.200	6 15:48	

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

Copy the modified 23415.xml file, which should replace the existing one, to the related folder of the source media. For example, navigate to the folder "DISK1\program files\Vodafone\Vodafone Connection Manager\Opco\23415 United Kingdom", and replace the existing file 23415.xml.

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4. Run Setup_vmc.exe.

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

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Favorite Links	Name	Date modified	Туре	Size
Documents	0x0809.ini	28.09.2006 13:27	Configuration Sett	6 KB
Pictures	0x0816.ini	28.09.2006 13:34	Configuration Sett	/ KB
D Music	1029.mst	10.11.2006 18:17	MST File	954 KB
	1031.mst	10.11.2006 18:17	MST File	94 KB
More #	1032.mst	10.11.2006 18:17	MST File	540 KB
Folders 🗸	1034.mst	10.11.2006 18:17	IVIST FILE	90 KB
DISK1 *	1030.mst	10.11.2006 18:17	MOT File	92 KB
🍌 Common	1030.mst	10.11.2000 10:17	MCT File	003 KB
🍰 CommonAppData	1042 mst	10.11.2006 19.17	MST File	129 10
🍌 program files 📃	1049.mst	10.11.2006 18:17	MST File	602 KB
🎉 Vodafone	2057 mst	10.11.2006 18:17	MST File	36 KB
📕 Vodafone Connection Manage	2070 mst	10 11 2006 18:17	MST File	80 KB
Jin Bin	dotnetfy eve	14 11 2005 09-24	Application	326 KB
J Driver	dotnetfx20.exe	31.05.2006 11:43	Application	22,960 KB
Jo Opco	setup.exe	10.11.2006 18:14	Application	264 KB
2000 Greece 20404 Netherlands 20601 Belgium 20810 France	Setup.ini	File description: Contact: Y Company: Vodafone File version: 11.50.0.42619 Date created: 12.11.2006 14:	our local administrator	3 KE 11.078 KE 2.525 KE

5. Conclusion

The installation process should now use both modified files, MobileConnectProfile.xml and 23415.xml. Also the property VMCSTARTMODE was changed to the value 2.

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Using Transform files with Vodafone Mobile Connect Lite

The following steps explain how to apply a transform file along with a compressed installer database package, for instance any Vodafone Mobile Connect Lite variant, because Vodafone Mobile Connect Lite variants are being delivered in a compressed format.

This chapter is limited to those Vodafone Mobile Connect Lite variants which are being launched directly from the device.

1. Create an administrative installation

Please have a look at the example in chapter "Command Line Parameter for Setup_vmc.exe", however the easiest way to perform an administrative installation is entering the following string into a command window:

helper.exe /a

After this installation you will have access to the MSI database "Vodafone Mobile Connect.msi", which is needed for creating transforms.

2. Create a Transform file

In chapter "Authoring Transform files", there is a detailed example of how to create a transform file. For example just change the property OPCO_PROP in the property table from value "0" to e.g. "26202", which performs an installation for Vodafone Germany and name this Transform file e.g. "MyTransform.mst".

3. Apply the Transform file

The file autorun.inf is used to apply the transform. The standard content of this file looks like the following:

```
[autorun]
open=setup_vmc_lite.exe /checkApplicationPresence
icon=setup_vmc_lite.exe
label=VMC Lite 9.4.0.12740
```

To apply the transform file change the content of this file to:

```
[autorun]
open=setup_vmc_lite.exe exe /v "TRANSFORMS=MyTransform.mst" /checkApplicationPresence
icon=setup_vmc_lite.exe
label=VMC Lite 9.4.0.12740
```

Note:

Changing just the property OPCO_PROP can also be done more easily without using a transform file, by specifying the installer property directly in the command line:

```
[autorun]
setup_vmc_lite.exe /v "OPCO_PROP=26202" /checkApplicationPresence
icon=setup_vmc_lite.exe
label=VMC Lite 9.4.0.12740
```

4. Create the ISO image

Place the Transform file "MyTransform.mst" in the same folder along with the modified file "autorun.inf", the MSI database "helper.exe", and the setup lite launcher "setup_vmc_lite.exe".

autorun.inf setup_vmc_lite.exe helper.exe MyTransform.mst

Then use an ISO image creation tool for creating an ISO image, containing these four files.

5. Flash the device

Use the device vendor specific toolset to get the ISO image to the device.

Supported VPN Clients

In Vodafone Mobile Connect 9.4.6, the supported VPN clients are Cisco, Checkpoint and Microsoft VPN. Supported means that if one of them is configured in the software, the VPN will be detected when the configured client is connected and its status will be shown in Vodafone Mobile Connect with VPN indicator. Also, for 'supported' VPN clients, the 'clean disconnect' feature will properly disconnect an existing VPN connection first when disconnecting the physical connection within Vodafone Mobile Connect.

🗿 Vodafone Mobile Connect 📃 🗆 🔀				
File View Settings	Tools He	lp		
Mobile Connect 🔹	Mobile C	onnections		
Main View	Y	odafone.de HSU	PA	Disconnect
Manage Connections		🕒 00:01:16 冒 35.83 КВ	≜ 76 bps ≣ 0 bps	 Connected VPN
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Zero Click Connect 🛞				
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SMS		ß		
C VPN				
PC Backup Pro				////
				1.0.000
6				1990 1990
vodafone				

For all other VPN clients, a basic support is implemented in Vodafone Mobile Connect. This means that the path to the VPN client can be chosen in the options and that the VPN client can be started from the Vodafone Mobile Connect main view. However, in such cases the VPN connection will not be detected by Vodafone Mobile Connect, and the software will not show any status for the VPN connection.

VPN configuration

If a VPN client is configured, it is possible to enable this client for use with Vodafone Mobile Connect. There are two possibilities:

- Using the Vodafone Mobile Connect settings/VPN menu
- Manual configuration by editing the Vodafone Mobile Connect user profile.
- In both cases it is required that a working VPN connection exists in Windows.

Configuration

The VPN configuration in Vodafone Mobile Connect can be accessed by going into "Settings/VPN" or, if no VPN is configured yet, by selecting the VPN entry in the Vodafone Mobile Connect main view.

🚺 VPN Settings	X
Select the VPI like to use.	۷ (Virtual Private Network) software that you would کے
None	
O MS VPN:	✓
O Other:	Browse
Parameters:	
	OK Cancel

If a Microsoft VPN connection is available in Windows, you will be able to select this connection. Confirm with "OK", and this configuration will be saved in the Vodafone Mobile Connect user profile.

The following entries can be seen afterwards in the "MobileConnectProfile.XML":

<UseMsVPN>true</UseMsVPN>

And

<MsVpnName>MS VPN</MsVpnName>

Where "MS VPN" is the name of the Microsoft VPN connection which has been configured in Windows.

By selecting "Other" Cisco and Checkpoint VPN can be configured.

1) select "Browse..." and navigate to the client applications from Cisco (vpngui.exe) or Checkpoint. After confirming with "OK", the configuration will be saved in the user profile. In this case Vodafone Mobile Connect can only start the VPN client, detect the VPN connection and show the status. Connect/disconnect of the VPN has to be done via the VPN client.

The necessary entries in "MobileConnectProfile.XML" are:

<UseOtherVPN>true</UseOtherVPN>

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

2) The second possibility is to add command line parameters for the VPN clients from Cisco (vpnclient.exe) or Checkpoint (scc.exe). The parameters (for example "-c -sd <Profile Name>") have to be added in the "Parameters" field of the "VPN Settings" window shown above. <Profile Name> should be replaced with an existing connection name for this client. The parameters -c -sd are necessary for the 'clean disconnect' feature in Vodafone Mobile Connect.

The necessary entries in "MobileConnectProfile.XML" are:

<UseOtherVPN>true</UseOtherVPN>

<Location>C:\Program Files\Cisco Systems\VPN Client\\vpngui.exe</Location> <VpnParam>-c -sd test_connection</VpnParam>

Where "test_connection" is an existing connection for this VPN client.

ABC (Always Best Connected)

Always Best Connected enhances the Vodafone Mobile Connect Software. Instead of handling only the mobile network, it can handle all available bearers:

- LAN (Ethernet)
- Mobile Networks (like GPRS, 3G, HSPA)
- WLAN (either public hotspots, WLAN routers or corporate hotspots).

The Always Best Connected features have been built to utilise the core Windows services such as .NET Framework and the Windows WLAN API.

To ensure that the service can be used properly there are some pre-requisites that we advise:

- Windows XP Service Pack 3 or higher (Vista/Windows 7)
 - If you are using Windows XP Service Pack 2 then you will need to ensure that the following patches are installed:
 - .NET Framework 2.0 (this is part of the VMC software package)
 - WLAN API Hotfix (KB918997) language dependant (EN, FR and DE are included)
 - MSXML 6.0 (KB933579) language dependant (EN, FR and DE are included)
- ABC will not work on Windows 2000, as the mentioned core Windows services are not available on this platform.

In addition, the default Windows WLAN mananger has to be used and it is suggested that you pre-load any WLAN profiles for your corporate WLAN services. Always Best Connected will pick up and use any existing Windows WLAN profiles.

The changes described in the following chapters have to be done in the OpCo.XML file, which can be found at the following location to define the service settings:.

%ProgramFiles%\Vodafone\Vodafone Mobile Connect\Opco\

Example for Vodafone UK: %ProgramFiles%\Vodafone\Vodafone Mobile Connect\Opco\23415 United Kingdom\23415.XML

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

%ProgramFiles%\Vodafone\Vodafone Mobile Connect\Templates\MobileConnectProfile.XML

Enable/Disable ABC

Certain features offered by the network operator (OpCo), but not wanted by the user, can be de-selected by the user (note: WLAN is not de-selectable). Features in the sense of the installer are Optimisation Software, and SMS. In this element additional "features" can be configured by the OPCO, e.g. VPN, SavePIN, PowerOn, and so on.

Xml element	value	Comment
ABC	boolean	Feature can be disabled by the user.
DisplayName	string	DisplayName, e.g. 'Always best connected'.
DisableSetting	boolean	Feature can be disabled by the user.

<Features>

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

```
</Features>
```

Switching Behaviour

The SwitchingBehaviour tag specifies how Vodafone Mobile Connect should react on changes in connections or availability of bearer types. This section applies to three situations:

- a connect
- a disconnect
- a 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 configure that an automatic switch to a higher prioritised connection will be prevented if there is an established connection, which

- has a VPN connection established through it
- is busy transferring data
- or has just been established for a short time.
- The default is 0 minutes.

The PreventWhenVpn and PreventWhenBusy tags are boolean, and the PreventWhenNew tag is numerical and defines the time in minutes how long a connection is considered new.

Xml element	value	Comment
PreventWhenVpn	boolean	Prevent when VPN.
PreventWhenNew	number	Prevent when new.
SwitchingMode	Auto	This tag allows the OpCo to configure whether a switch to the highest
	Prompt	prioritised connection should be made automatically, or whether the
	Manual	user will be prompted or has to do all connect and disconnect
		operations manually. The possible values for these tags are Auto,
		Prompt, and Manual.
HasSpecialModeChange	boolean	When changing SwitchingMode from Off to Auto or Prompt, enable LAN
		and WLAN bearer types. When changing SwitchingMode from Auto or
		Prompt to Manual, disable LAN and WLAN bearer types
PromptWhenRoaming	boolean	Prompt when roaming.
PromptWhenVpn	boolean	Prompt when VPN.
ShowNotifications	boolean	This tag specifies whether the user will be notified about a better
		connection by a balloon tip at the Vodafone Mobile Connect tray icon in
		case the switching mode is Auto or Manual. For Manual mode, the
		balloon tip can be clicked in order to perform the switch. A balloon tip is
		not shown when the switching mode is Prompt. When the global
		switching mode is Auto, a prompt might still be desirable in certain
		situations:
		 - in a roaming scenario (for all three situations: connect, disconnect, and switch)
		- when there is an established connection that has a VPN connection
		established through it, and this connection needs to be disconnected for
		a 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

The section AutoVpn allows to configure the default VPN settings for connection profiles. These settings only apply when a corporate anchor point has not been configured. VpnGlobal is the default value for the global setting, where the user tells the software whether he is in a corporate or private scenario. This is only used when a corporate anchor point has been configured. The other subtags of this element define the default value for starting of VPN per connection profile (for the respective bearer types). These values are only used when a corporate anchor point is not configured. Possible values are *True* and *False*, the default is *False*. The setting is independent of the specific VPN client and applies to all VPN clients.

Xml element	Value	comment
VpnGlobal	Boolean	Global VPN Flag
LAN	Boolean	LAN
WWAN	Boolean	WWAN
WebSessions	Boolean	WebSessions
PreferredWlan	Boolean	Preferred WLAN
OtherWlan	Boolean	Other WLAN

<AutoVpn>

<LAN>false</LAN>

<VpnGlobal>false</VpnGlobal>

<WWAN>false</WWAN>

<WebSessions>false</WebSessions>

```
<PreferredWlan>false</PreferredWlan>
        <OtherWlan>false</OtherWlan>
</AutoVpn>
```

Subscription/Licencing

In the OPCO file there is an element called 'Subscription' where a period for refreshing a license check (never) should be specified.

Xml element	value	Comment
Check	Never	How often Vodafone Mobile Connect has to check the subscription of
Timeout	number	net applicable
Timeout	number	not applicable
Server	string	not applicable
ResultPattern	string	not applicable
LicencePattern	string	not applicable.

<Subscription Check="Never" Timeout="30">

```
<Server />
```

<ResultPattern /> <LicencePattern />

```
</Subscription>
```

National/International

The AlwaysBestConnected element contains 2 objects that prioritise the bearer types: The sub-tag in tag International will be applied for setting the priority when the user is in a roaming situation, whereas the sub-tag in tag National will be used for non-roaming. The National and International elements describe the prioritisation order of bearer types and which of them should be enabled by default. The sections also configure the open-internet anchor points. Each BearerPrio object will contain a new tag DisconnectionBehaviour, both for National and International, which specifies whether and how Vodafone Mobile Connect should disconnect a Mobile or WebSessions connection, when a higher prio LAN or WLAN connection gets connected. The possible values for these tags are Auto, Prompt and Manual.

Xml element	value	comment
National	string	The object National will be applied, when the user is in a non-roaming situation.
International	string	The object International will be applied, when the user is in a roaming situation.
Title	string	Module title string.
Bearer	string	Bearer type string.
Enabled	boolean	Module status.
Index	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>
</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>
```

Open Internet Anchor Points vs. Corporate Anchor Point

The Open Internet Anchor Points are defined by the Operator in the OpCo.XML file (see introduction to this chapter for the location). These Open Internet Anchor Points are for ckecking the internet access, for instance when using a Public WLAN hotspot.

The **Corporate Anchor Point** will be defined by an IT Administrator in the file MobileConnectProfile.XML. This anchor point is used for checking the corporate intranet via VPN (see section **Auto VPN** above).

Anchor Points

When a connection has been selected by ABC and has been established, it might not be usable. It is to check that the connection does or does not provide access to a corporate intranet.

Vodafone Mobile Connect can be configured to make HTTP requests to specific servers, so that it can check for the reachability of the corporate intranet. These servers are called anchor points. They will be configurable by their URL and must fulfil certain conditions:

- high server availability,

- fast response,
- small data traffic.

Xml element	Value	comment
AnchorPoint1	String	Corporate anchor point.
AnchorPoint2	String	Used if AnchorPoint1 is not available.
Latency	Number	The server must be reachable within the configured latency time, in order to accept the connection as usable.
ResponsePattern	String	The server must send back a response matching the response pattern specified in the OpCo configuration file.
Server	URL	The name of the anchor point. The open-internet anchor point is used to check whether the open internet is reachable and to decide whether to open the standard web browser, in order to show a landing page. Whenever the highest-prioritised established connection changes or a connection is established manually, Vodafone Mobile Connect will issue an HTTP GET request on that connection to the open-internet anchor point. If Vodafone Mobile Connect does not get the expected response, it will open the standard web browser and have it also access the open- internet anchor point. The browser's HTTP GET request might then be redirected to a landing page. In case of a WebSessions connection, the user will be able to purchase a session. In case of a WLAN connection, the user might get a landing page for authorisation. The server address of the anchor point for the open internet anchor point has been configured by the OpCo, Vodafone Mobile Connect assumes that the internet is reachable when a connection has been established.

<ABC Subscribed="true" InCorporateSenario="true">

<CorporateAnchorPoint Latency="10" ResponsePattern="ACK">

<Server>http://myserver/ACK.html</Server>

</CorporateAnchorPoint>

</ABC>

In this example a server is accessible in the corporate environment where an HTML file is located. This file has the phrase "ACK" in the content of the file.

When the connection is started the software will send a request to the server and if the correct response is received then no further action takes place and the user continues. However, if no response is received the VPN will be started - providing the InCorporateScenario and VpnGlobal tags are set to true.

VPN Settings

VMC software allows the IT manager to define the VPN to be started; this can be set up along with any parameters.

Vodafone Mobile Connect supports a wide range of VPN software:

- Microsoft VPNs: When a Microsoft VPN has been set up on your computer already, it can be selected via the Settings/VPN menu entry.
- Other VPNs: You can set up any executable program file (.exe), batch file (.bat), script file (.cmd) and so on, to act as your VPN program. Example: 'ipsecdialer.exe' is the commonly-used VPN application from Cisco.

The VPN settings can be customised in the MobileConnectProfile.XML file.

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

For example:

</PN ManualProxy="false" Proxy="" Port="0" Bypass="false" Script="" NoProxyWhenNoVPN="false"> </pnParam>/c<//pnParam>

<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 the already deployed VPN client is defined in the "LOCATION" tag, and the start parameter /c is defined in the "VpnParam" to automatically connect.

Further Information

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

- Vodafone Mobile Connect software downloads
- Data card firmware downloads
- VPN documentation
- FAQ
- How-to's
- Etc...

http://support.vodafone.com

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