



**IT ADMINISTRATOR GUIDE FOR
Nokia PC Suite
Enterprise Edition 7.1**

NOKIA

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1. INTRODUCTION

This document describes the advanced features of installing Nokia PC Suite 7.1 Enterprise Edition. The instructions specified here apply only to Nokia PC Suite Enterprise Edition based on PC Suite 7.1 releases. This document is meant for IT support personnel, such as system administrators. Any information presented here may change later.

1.1 System requirements

To do this	You must have
To install and run Nokia PC Suite Enterprise Edition	At least 300 MB of free disk space One of the following operating systems: <ul style="list-style-type: none">• Windows 7 32-bit and 64-bit editions• Windows Vista 32-bit and 64-bit editions (Service Pack 1)• Windows XP Professional x64 edition (Service Pack 2)• Windows XP (Professional or Home Edition) (Service Pack 2 or later) Administrator rights to the PC to install software on it
To connect your phone to a PC	At least one of the following connection sets <ul style="list-style-type: none">• USB connection cable (DKU-2, DKE-2, CA-53, CA-70 or CA-101) and a compatible port on your PC• Serial connection cable CA-42 and a compatible port on your PC• Infrared (IrDA) port on your PC• Bluetooth wireless technology equipment and software

To do this	You must have
<p>To create a Bluetooth wireless technology connection between your phone and a PC</p>	<p>Bluetooth wireless technology equipment compatible with one of the supported Bluetooth stacks listed below:</p> <p>Windows 7 or Windows Vista 32-bit and 64-bit editions:</p> <ul style="list-style-type: none"> • Microsoft Windows Bluetooth stack • WIDCOMM Bluetooth stack, driver version 6.x • Toshiba Bluetooth stack, driver version 5.10.12, 6.10.10, 6.30.01 • IVT BlueSoleil Bluetooth stack, driver version 5.0.5, 6.2.227.11, 6.4.245.0 <p>Windows XP x64:</p> <ul style="list-style-type: none"> • Microsoft Windows Bluetooth stack • Toshiba Bluetooth stack, driver version 5.10.12, 6.10.10 • IVT BlueSoleil Bluetooth stack, driver version 5.0.5, 6.2.227.11 <p>Windows XP:</p> <ul style="list-style-type: none"> • Microsoft Windows Bluetooth stack • Toshiba Bluetooth stack, driver version 4.0, 5.0, 5.10.12, 6.10.10, 6.30.01 • WIDCOMM Bluetooth stack, driver version 1.4.2.18, 3.x, 4.x, 5.0, 5.1, 5.5 • IVT BlueSoleil Bluetooth stack, driver version 3.x, 5.0.5, 6.2.227.11, 6.4.245.0 <p>Note: Available Bluetooth technologies and their versions may not be supported by your Nokia mobile device. Check your Nokia mobile device user guide for further details about compatibility with the listed Bluetooth technologies.</p> <p>Note: To check which Bluetooth stack your PC has installed: in the PC Suite Enterprise Edition main window, click Help > About Nokia PC Suite... > Show System Information dialog. If the Bluetooth stack found on your PC is not supported by PC Suite Enterprise Edition, this is also mentioned in the system info.</p>
<p>To perform tasks with Nokia PC Suite Enterprise Edition applications</p>	<p>A compatible phone. Certain features can only be used with phone models that support those features. For example, not all phone models support sending multimedia messages.</p> <p>To check which versions of PC Suite Enterprise Edition, PC Suite Enterprise Edition applications, and connection types your phone model supports, see www.nokia.com/pcsuite.</p>



Note: You should use the same language in the phone, the operating system, and Nokia PC Suite Enterprise Edition, if possible. This ensures your phone will function properly with all Nokia PC Suite Enterprise Edition applications.

1.2 Before installing Nokia PC Suite Enterprise Edition

If you use a Bluetooth wireless technology connection to connect the PC and the phone, install any required Bluetooth adaptors or software before you install Nokia PC Suite Enterprise Edition. For information on the required Bluetooth software, see section 1.1., *System requirements* in this guide.

To use a cable to connect the PC and the phone, you need appropriate cable drivers on your PC. For cable models DKU-2, DKE-2, CA-53, CA-70, CA-101, and CA-42 the drivers are installed automatically when you install PC Suite Enterprise Edition. Other Nokia cable driver setup programs can be found on the Nokia Product Support web pages at <http://www.europe.nokia.com/nokia/0,8764,81912,00.html>.



Note: Only install software from sources that offer adequate protection against harmful software.



Note: Make backup copies of all important data before installing Nokia PC Suite Enterprise Edition.

1.3 Nokia PC Suite Enterprise Edition features

Nokia PC Suite Enterprise Edition contains fewer features than the full edition of Nokia PC Suite. By default these features are all installed to the target system, but certain application availability for the end-user can be set in a way described later in this document.

Selectable features included in Nokia PC Suite Enterprise Edition:

- Application Installer
- Content Copier
- One Touch Access
- PC Sync

The following features are always included in order to make Nokia PC Suite Enterprise Edition work properly:

- Communication Centre
- Connection Manager
- Get Connected wizard
- Launch Application
- Phone Browser

2. INSTALLING NOKIA PC SUITE ENTERPRISE EDITION

2.1 Installation package formats

Nokia PC Suite Enterprise Edition installation is available as a PC Suite Installer package. The file extension of the package is ".exe". The PC Suite Installer package contains Windows Installer installation packages (.msi) that the Nokia Installer manages and installs. The Nokia PC Suite Enterprise Edition installer package includes the following Windows Installer packages:

Product	Package
Visual C++ runtime library for 32-bit Windows	VC80_x86_v2.msi
Visual C++ runtime library for 64-bit Windows	VC80_x64_v2.msi
Nokia Connectivity Cable Driver	Nokia_Connectivity_Cable_Driver.msi
PC Connectivity Solution	PCCS.msi
Nokia PC Suite 7.1 Enterprise Edition	Nokia_PC_Suite_EE.msi

Table 1 Nokia PC Suite Enterprise Edition package contents

Nokia PC Suite Enterprise Edition is localised in 34 languages.

2.1.1 Nokia PC Suite 7.1 Enterprise Edition and Nokia PC Suite 7.1 installation concept

The full edition of Nokia PC Suite installs over Enterprise Edition if the version of Enterprise Edition is the same or older than the version of the full edition.

Nokia PC Suite Enterprise Edition cannot be installed over Nokia PC Suite full edition. If the Enterprise Edition installation detects Nokia PC Suite, it stops the installation procedure and displays an error message to the user. Nokia PC Suite must be first uninstalled manually via **Windows Control Panel > Add or Remove Programs** or from **Start > Programs > Nokia PC Suite** before Enterprise Edition can be installed on the PC.

2.2 Synchronisation features of Nokia PC Suite Enterprise Edition

Nokia PC Suite Enterprise Edition contains the PC Sync application, which can be used to synchronise calendar entries, tasks, notes, contacts, bookmarks and e-mails between a phone and a PIM (Personal Information Manager, for example Microsoft Outlook). By default, all supported items can be synchronised. The set of synchronised items can be restricted in a way described in later in this document.

2.3 Normal installation

To execute a normal installation, double-click the installation package file or use **Start > Run**.

2.4 General Nokia PC Suite installation options

The command line options described in this chapter are available in both Nokia PC Suite Enterprise Edition and Nokia PC Suite full edition. The supported options are listed in Table 2.

Usage for command line options is as follows:

```
<filename> /option1="parameters" /option2="\parameter\""...
```

<filename> is the name of the installation package. Each option should appear only once in the command line and different options are separated by space. Parameters are enclosed in quotation marks. Inner quotes in parameters are escaped using the ‘\’ character in front of the quotation mark.

Option	Parameters	Description
/S= or /SILENT=	"1 S G W L R M T P F C E"	Silent mode. 1 - Full silent mode. S - Displays the splash screen. G - Displays the language selection dialog. W - Displays the welcome dialog. L - Displays the license agreement dialog. R - Displays the installation folder dialog. M - Displays the maintenance options dialog. T - Displays the start to install dialog. P - Displays installation/maintenance progress dialogs. F - Displays installation/maintenance completed/interrupted dialogs. C - Displays custom confirmation and warning messages. E - Displays custom error messages.
/T= or /TARGET=	"<installation directory>"	Sets the installation target directory. The directory is appended to the "Program Files" system folder.
/L= or /LANG=	"<Language specifier>"	Sets the installation language. This option works only when used with multilanguage installations. The option cannot be used without a parameter. For a list of supported language specifiers, see Supported languages .
/E= or /EXCLUDE=	"<Package1> <Product code1>; <Package2> <Product code2>; ..."	Install excluding the specified msi packages from the installation.
/LOG=	"ON OFF"	Logging is turned on or off.
/O= or /MSI_CUSTOM_OPTIONS=	"<Msi package> <Product code>; <Custom options>"	This option defines the properties forwarded to Windows Installer. If parameter <Msi package> or <Product code> is omitted, the <Custom options> parameter is forwarded to all msi packages that are included in the installer package.

Option	Parameters	Description
/U= or /UNPACK=	"<path>"	Unpacks the Installer package. If path is not given, the package is unpacked to a temporary folder.
/D= or /DISABLE=	"AUTORUN"	AUTORUN – Disables the installer from starting PC Suite applications after installation.
/RM= or /REINSTALLMODE=	"<Reinstall parameters>"	Specifies Windows Installer command line options for reinstallation.

Table 2 Nokia PC Suite command line options

2.5 Configurable features

By default, all features described in section 1.3, Nokia PC Suite Enterprise Edition features are installed, but certain features can be excluded from being installed by using installer command line option /O as follows:

```
<filename> /O="FeaturePropertyA=0 FeatureB=0"
```

<filename> is the name of the installation package

Configurable features are listed in Table 3.

Feature property	Description
NAI=0	Excludes Nokia Application Installer
SYNC=0	Excludes Nokia PC Sync
NCC=0	Excludes Nokia Content Copier
OTA=0	Excludes One Touch Access

Table 3 Configurable features of Nokia PC Suite Enterprise Edition

2.5.1 Configurable features of the PC Sync application

The Nokia PC Suite Enterprise Edition installer can be used to configure PC Sync application features in order to:

- Disable synchronisation of content types.
- Select/unselect content types for inclusion in synchronisation.
- Set direction of synchronisation for content types.
- Select the personal information manager (PIM) application.
- Enable custom repeat pattern expansion in Lotus Notes calendar synchronisation.
- Enable additional 'Rooms' detail support in Lotus Notes calendar synchronisation.
- Relocate PC Sync control and log files.

Default PC Sync settings are used if synchronisation options are not defined.

The following syntax is used to set the supported synchronisation features of the PC Sync application:

```
<filename> /[O|MSI_CUSTOM_OPTIONS]="[Option]=[Parameters]"
```

<filename> is the name of the installation package

Option	Parameters	Description
NOSYNC=	B C E F M N	Identifies content types that should not be included in synchronisation and should be completely hidden in the PC Sync user interface. B = Phonebook C = Calendar E = E-mail F = File M = Bookmark N = Notes
[L]SYNCSEL=	B C E F M N	Identifies content types that should be selected for synchronisation.
[L]SYNCUNSEL=	B C E F M N	Identifies content types that should not be selected for synchronisation.
[L]TOMOBILE=	B C E F M N	Selects as default one-way synchronisation direction to mobile for the identified content types.
[L]TOPC=	B C E F M N	Selects as default one-way synchronisation direction to PC for the identified content types.
[L]TOWOAY=	B C E F M N	Selects as default two-way synchronisation direction for the identified content types.
[L]PIM=	MSO MOE MSV LO5 LO6 LN5 LN6 LN7 LN8	Identifies the default PC PIM application for synchronisation. MSO = Microsoft Outlook MOE = Outlook Express MSV = Microsoft Vista Calendar and Contacts LO5 = Lotus Organizer 5.0 LO6 = Lotus Organizer 6.0 LN5 = Lotus Notes 5.x LN6 = Lotus Notes 6.x LN7 = Lotus Notes 7.x LN8 = Lotus Notes 8.x
LNECR=	1	Enables custom repeat pattern expansion in Lotus Notes calendar synchronisation. See section 2.5.2 for detailed description and limitations for this option.

Option	Parameters	Description
LNROOMS=	1	Enables additional 'Rooms' detail support in Lotus Notes calendar synchronisation. See section 2.5.3 for detailed description and limitations for this option.
SYNCDATADIR=	"<path>"	Defines the location of PC Sync application data and log files. i Note: Setting of this option does not result in any previous control or log files being moved to the new location. To use the existing configuration in the new location, the files need to be manually copied from the old location to the new.

Table 4 Configurable features of the PC Sync application



Note: In options including '[L]', the L stands for locking meaning that user selection cannot override the setting. In PC Sync, locking will in practice cause the setting to be visible but disabled. Synchronisation selection settings control which items are selected to synchronisation as default.

2.5.2 Custom repeat pattern expansion in Lotus Notes calendar synchronisation

Lotus Notes supports the following repeat pattern attributes:

Frequency: Daily, Weekly, Monthly, Yearly, Custom.
Interval: 1, 2, 3, etc.
Adjustment: Day(s) of Week / Month.

Most Nokia mobiles support the following repeat patterns:

'Every Day', 'Every Week', 'Every 2 Weeks', 'Every Month' and 'Every Year'.

Where custom repeat patterns in Lotus Notes are not supported by the Nokia mobiles, PC Sync will expand the original repeating entry into a set of individual instances of non-repeating calendar entries.

Limitations:

1. Synchronisation of expanded custom repeat entries is 'one-way' from Lotus Notes to the Nokia mobile phone. If the user amends or deletes the expanded instances on the mobile, PC Sync will reject these amendments / deletions and these rejections will be logged in the synchronisation report.

It should be noted that this rejection mechanism will result in these updates being re-attempted by the mobile until either they are overridden, or the entries fall out of the synchronisation range.

2. Any expanded repeat entries will be filtered by PC Sync using the active synchronisation date range. This will cause different behaviour between normal repeat entries and expanded custom repeat entries. For example, entries with simple repeat patterns will have ALL of their instances shown on the mobile, as they will be synchronised as true repeating entries. Entries that have custom repeat patterns will ONLY have the instances that fall within the active synchronisation range synchronised, as these entries will have been expanded.
3. Enabling and disabling the expansion functionality by reinstalling PC Suite can lead to undesired results. If the user were to run a slow synchronisation with the expanded repeats functionality disabled, having previously run synchronisations with it enabled, there will be a mismatch between the expanded entries on the device and true repeating entries in Lotus Notes. This is likely to result in what the user would consider to be duplications in Lotus Notes, where both true repeat entries and expanded instances will now be visible.

2.5.3 Additional 'Rooms' detail support in Lotus Notes calendar synchronisation

Amongst others, Lotus Notes supports the following properties for Meeting items:

- Location
- Rooms

Of these properties, the Nokia mobiles currently only have specific support for the 'Location' property.

When this option is enabled, PC Sync provides synchronisation support for the 'Rooms' property as well.

Limitations:

1. Only one Lotus Notes field can be synchronised at a time. Priority would be given to the 'Location' field, so that if the Lotus Notes entry contains both 'Location' and 'Rooms' data, only the 'Location' data would be synchronised to the mobile.
2. While the 'Location' field in Lotus Notes is free formatted, so that the user can type anything into the field, the 'Rooms' field is a select list, with a set of values obtained from an external source. It is possible, therefore, that amendments made on the mobile may not be valid within Lotus Notes, and so care will need to be taken when amending the 'Rooms' details on the device.
3. In order to avoid unexpected behaviour as a result of enabling and / or disabling this functionality, it will be necessary, having set the associated registry switch, to also create a new synchronisation configuration ('Create New Settings').

2.6 Examples of using command line options



Note: Do not copy and paste text from the examples below directly to the Installer. You need to type the text to make sure all characters are reproduced correctly.

Example 1

Install the English (UK) version of Nokia PC Suite Enterprise Edition and during the installation process show only the license agreement dialog and error or warning messages if problems are encountered.

```
Nokia_PC_Suite_Enterprise_Edition_7_1_40_2_ALL.exe /L="2057" /S="LWE"
```

Example 2

Install only Nokia PC Sync and Nokia Content Copier applications.

```
Nokia_PC_Suite_Enterprise_Edition_7_1_40_2_ALL.exe /O="NAI=0 OTA=0"
```

Example 3

Disable all but email synchronisation.

```
Nokia_PC_Suite_Enterprise_Edition_7_1_40_2_ALL.exe /O="NOSYNC=BCFMN"
```

Note that although some item is not disabled by a command line parameter, it may still be disabled if the connected phone does not support the synchronisation of the feature.

Example 4

Install the PC Sync and Content Copier applications, and disable the synchronisation of e-mails and notes.

```
Nokia_PC_Suite_Enterprise_Edition_7_1_40_2_ALL.exe /O="NAI=0 OTA=0  
NOSYNC=EN"
```

Example 5

Install Nokia PC Suite Enterprise Edition in Finnish from a multilanguage installation package displaying only the installation progress dialog. Select the following applications to be installed: PC Sync, One Touch Access and Content Copier. Disable other PC Sync features except calendar synchronisation.

```
Nokia_PC_Suite_Enterprise_Edition_7_1_40_2_ALL.exe /LANG="1035"  
/SILENT="P" /O="NAI=0 NOSYNC=BEFMN"
```

Example 6

Install Nokia PC Suite Enterprise Edition from a multilanguage installation package displaying the language selection and installation progress dialogs. Disable the Nokia Connectivity Cable Driver installation. Disable applications from being started after the installation has finished.

```
Nokia_PC_Suite_Enterprise_Edition_7_1_40_2_ALL.exe /SILENT="GP"  
/EXCLUDE="Nokia_Connectivity_Cable_Driver.msi" /DISABLE="AUTORUN"
```

Example 7

Install Nokia PC Suite Enterprise Edition selecting file items to be always synchronised as default and selecting notes not to be included as default.

```
Nokia_PC_Suite_Enterprise_Edition_7_1_40_2_ALL.exe /O="LSYNCSEL=F  
SYNCUNSEL=N"
```

Example 8

Install Nokia PC Suite Enterprise Edition hiding e-mail sync, setting direction of synchronisation from PIM to phone for calendar and files, setting direction of synchronisation from phone to PC with locking for contacts and locking two-way sync for notes and locking Microsoft Outlook as the PIM application.

```
Nokia_PC_Suite_Enterprise_Edition_7_1_40_2_ALL.exe /O="NOSYNC=E  
TOMOBILE=CF LTOPC=B LTWOWAY=N LPIM=MSO"
```

In this example bookmarks are not defined separately, which means that the default behaviour of PC Sync is used (that is, two-way sync without additional restrictions).

Example 9

Install Nokia PC Suite Enterprise Edition enabling additional Lotus Notes calendar synchronisation options and specifying a new location for PC Sync control and log files.

```
Nokia_PC_Suite_Enterprise_Edition_7_1_40_2_ALL.exe  
/MSI_CUSTOM_OPTIONS="LNECR=1 LNROOMS=1 SYNCDATADIR=C:\SyncData"
```

If the SYNCDATADIR path contains spaces, the path needs to be enclosed in quotation marks preceded by the '\ ' character as an escape character for the quotation mark.

```
Nokia_PC_Suite_Enterprise_Edition_7_1_40_2_ALL.exe  
/MSI_CUSTOM_OPTIONS="LNROOMS=1 SYNCDATADIR=\"C:\Sync data dir\""
```

Supported languages

Language specifier	Language ID
Arabic	1025
Brazilian Portuguese	1046
Canadian French	3084
Chinese (Hong Kong)	3076
Chinese (P.R.C)	2052
Chinese (Taiwan)	1028
Czech	1029
Danish	2030
Dutch	1043
English (UK)	2057
English (US)	1033
Filipino (Tagalog)	1052
Finnish	1035
French	1036
German	1031
Greek	1032
Hebrew	1037
Hungarian	1038
Indonesian	1057
Italian	1040
Malay	1086
Norwegian	1044
Polish	1045
Portuguese	2070
Romanian	1048
Russian	1049
Slovak	1051
Slovenian	1060
Spanish (Spain)	1034
Spanish (American)	2058
Swedish	1053
Thai	1054

Language specifier	Language ID
Turkish	1055
Vietnamese	1066

Table 5 Language specifiers and language IDs

2.7 Deploying Nokia PC Suite Enterprise Edition with Active Directory

The Nokia PC Suite Enterprise Edition installer option /UNPACK can be used to extract Windows Installer (.msi) packages from the Nokia PC Suite Enterprise Edition installer package. Packages can then be deployed separately with Active Directory in the following order:

1. Visual C++ runtime library
2. Nokia Connectivity Cable Driver
3. PC Connectivity Solution
4. Nokia PC Suite Enterprise Edition

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