

# **SAS® Quality Knowledge Base for Product Data 5 Installation and Configuration Guide**



The correct bibliographic citation for this manual is as follows: SAS Institute Inc. 2014. *SAS® Quality Knowledge Base for Product Data 5: Installation and Configuration Guide*. Cary, NC: SAS Institute Inc.

**SAS® Quality Knowledge Base for Product Data 5: Installation and Configuration Guide**

Copyright © 2014, SAS Institute Inc., Cary, NC, USA

All rights reserved. Produced in the United States of America.

**For a hard-copy book:** No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise, without the prior written permission of the publisher, SAS Institute Inc.

**For a web download or e-book:** Your use of this publication shall be governed by the terms established by the vendor at the time you acquire this publication.

The scanning, uploading, and distribution of this book via the Internet or any other means without the permission of the publisher is illegal and punishable by law. Please purchase only authorized electronic editions and do not participate in or encourage electronic piracy of copyrighted materials. Your support of others' rights is appreciated.

**U.S. Government License Rights; Restricted Rights:** The Software and its documentation is commercial computer software developed at private expense and is provided with RESTRICTED RIGHTS to the United States Government. Use, duplication or disclosure of the Software by the United States Government is subject to the license terms of this Agreement pursuant to, as applicable, FAR 12.212, DFAR 227.7202-1(a), DFAR 227.7202-3(a) and DFAR 227.7202-4 and, to the extent required under U.S. federal law, the minimum restricted rights as set out in FAR 52.227-19 (DEC 2007). If FAR 52.227-19 is applicable, this provision serves as notice under clause (c) thereof and no other notice is required to be affixed to the Software or documentation. The Government's rights in Software and documentation shall be only those set forth in this Agreement.

SAS Institute Inc., SAS Campus Drive, Cary, North Carolina 27513-2414.

November 2014

SAS provides a complete selection of books and electronic products to help customers use SAS® software to its fullest potential. For more information about our offerings, visit [support.sas.com/bookstore](http://support.sas.com/bookstore) or call 1-800-727-3228.

SAS® and all other SAS Institute Inc. product or service names are registered trademarks or trademarks of SAS Institute Inc. in the USA and other countries. ® indicates USA registration.

Other brand and product names are trademarks of their respective companies.

# Table of Contents

- Choosing Your Download and Installation Options.....2**
- Downloading and Installing Using SAS Deployment Wizard .....3**
  - Using the Software Order Email..... 3
  - Using the SAS Deployment Wizard..... 3
- Downloading and Installing Using Downloads Site ..... 11**
  - Downloading a Quality Knowledge Base ..... 11
  - Installing the Quality Knowledge Base..... 14
- Directory Layout.....22**
  - Windows Directory Layout ..... 22
  - UNIX Directory Layout ..... 23
- Merging with an Existing QKB .....24**
- Recommended Reading .....25**

# Choosing Your Download and Installation Options

SAS Quality Knowledge Base (QKB) for Product Data (PD) 5 introduces the SAS Deployment Wizard. The SAS Deployment Wizard can be used when installing the QKB as a part of a larger purchase, such as when you install DataFlux Data Management Studio.

- [Downloading and Installing with SAS Deployment Wizard](#)

Or, you can download and install QKB PD using the Windows or UNIX instructions provided in this document.

- [Downloading and Installing Using Downloads Site](#)

# Downloading and Installing Using SAS Deployment Wizard

The steps for installing QKB PD are described in this section.

## Using the Software Order Email

When you receive your licensed SAS software, you receive a Software Order Email (SOE) that describes how to install your order and provides links to tools that can assist you during the installation process.

Download the SAS Download Manager. The SAS Download Manager is the application that you use to download your software. Follow the link in your SOE to download and install your SAS Download Manager.

The SAS Download Manager prompts you through a series of windows and dialog boxes that ask you to launch the SAS Download Manager, insert the order number listed in your SOE, and log in to the SAS Installer account. You then review the software for your order. The SAS Download Manager downloads your software to the SAS Software Depot, which is a repository for your SAS software media. If you do not have a SAS Software Depot, SAS Download Manager creates one for you.

After the SAS Download Manager downloads the SAS software, return to the SOE for further instructions. Follow the steps in the SOE to begin your SAS installation. The instructions vary depending on your operating system.

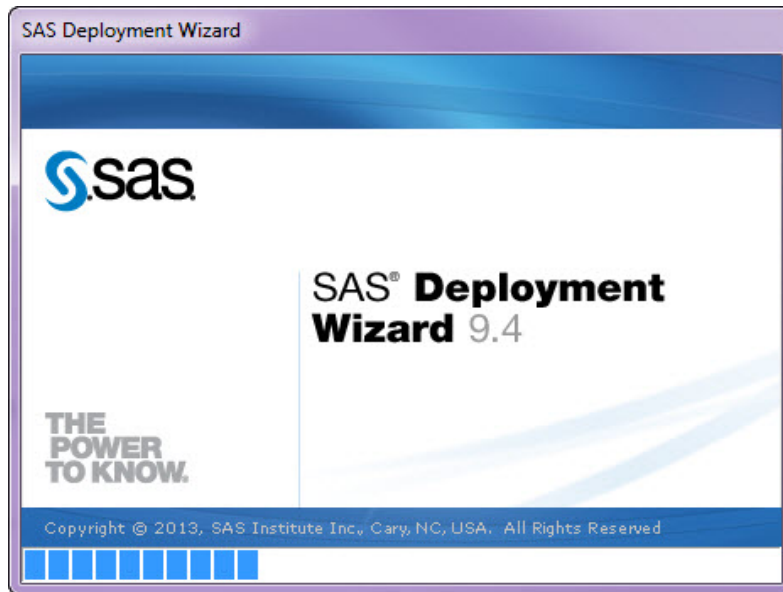
## Using the SAS Deployment Wizard

The SAS Deployment Wizard is the application that guides you through the installation of your SAS software. The following installation example is for QKB PD 5.

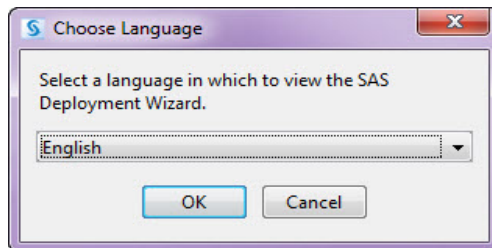
To install and configure your QKB PD 5 interactively, follow these steps:

1. Log on to your machine with a user ID using the SAS Installer account that you created when you installed and ran the SAS Download Manager. Or, use an account where you are a member of the Windows Administrators group.
2. Temporarily disable anti-virus, anti-malware, anti-spyware, and firewall software. These types of programs can interfere with the installation process and block files as they are being copied and extracted.
3. Start Windows Explorer.
4. Navigate to the highest-level directory in your SAS Software Depot.
5. Right-click setup.exe.

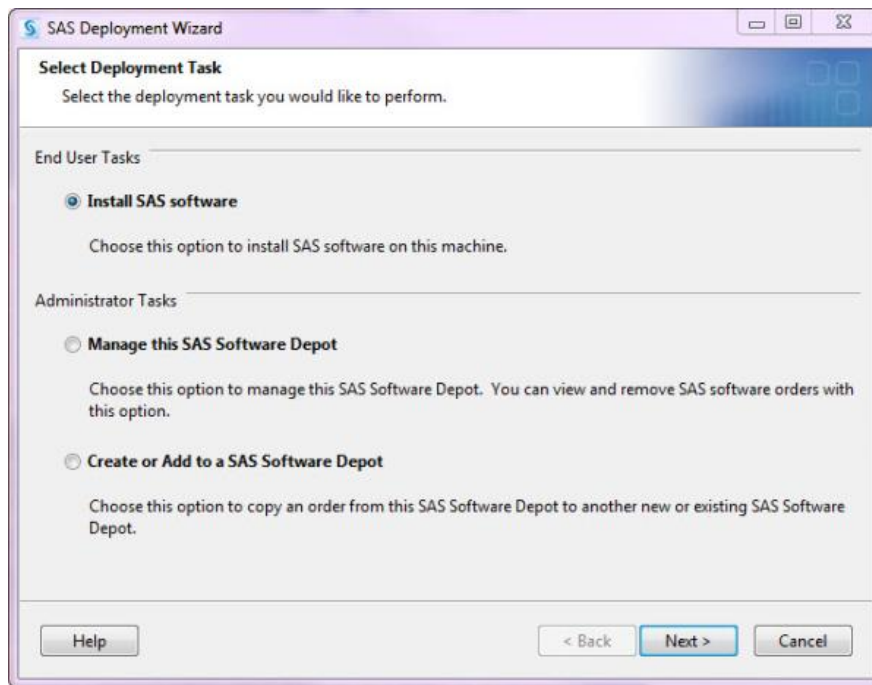
6. Select **Run as Administrator**. The SAS Deployment Wizard opens and begins.



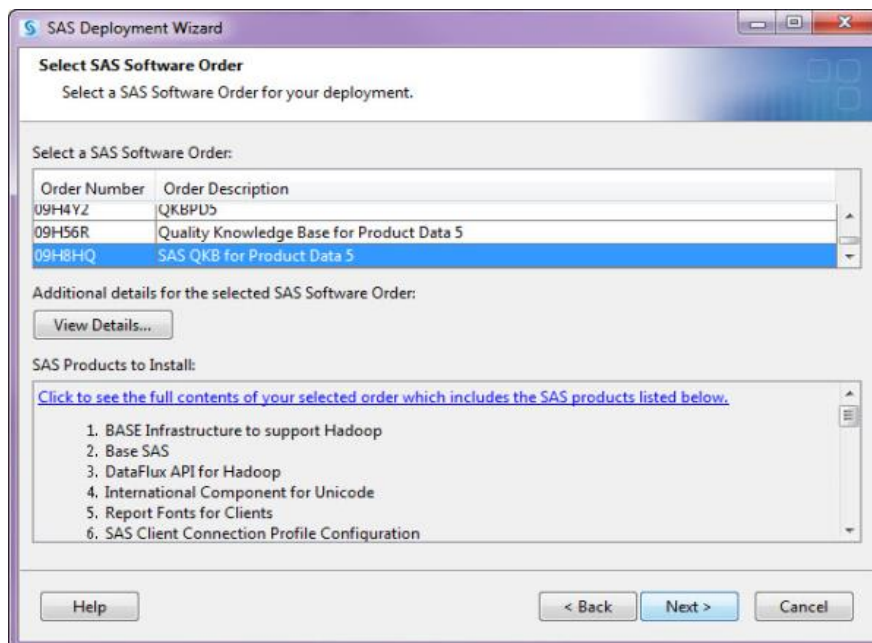
7. On the **Choose Language** page, select the language that you want the SAS Deployment Wizard to use when it displays text.



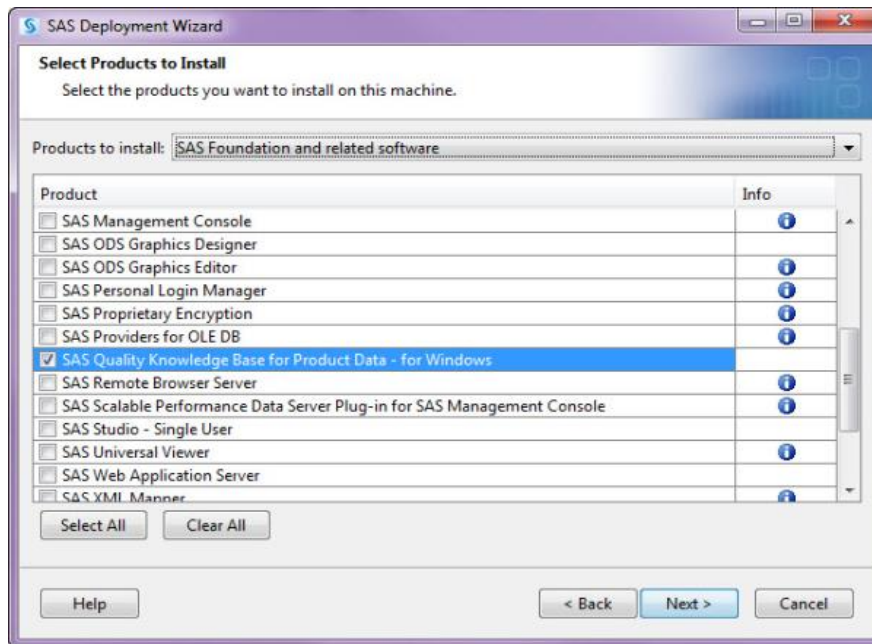
8. Click **OK**.
9. On the **Select Deployment Task** page, under **End User Tasks**, select **Install SAS software**.



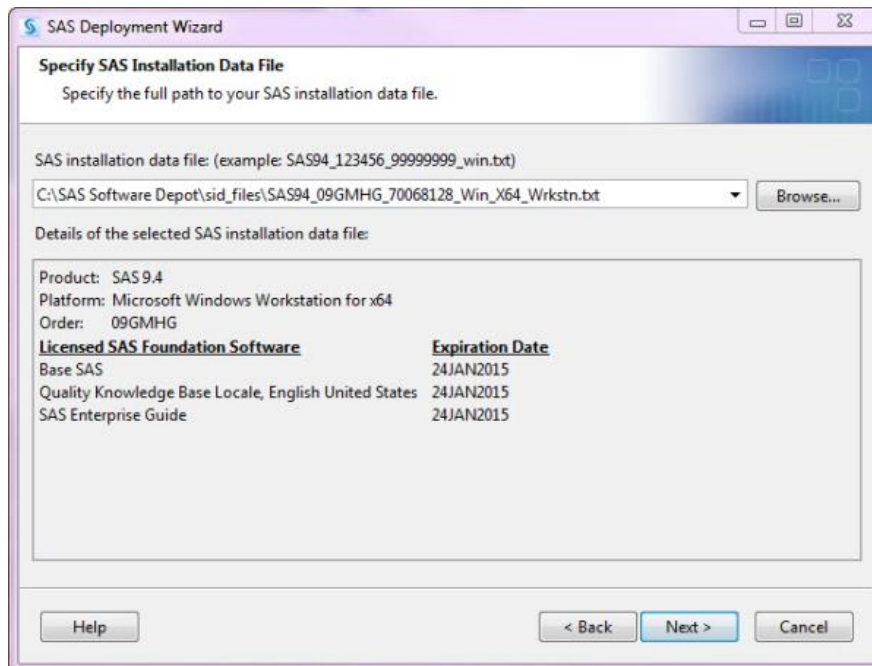
10. Click **Next**.
11. On the **Select SAS Software Order** page, specify the software order that you want to install.



12. Click **Next**.
13. On the **Select Products to Install** page, use the scroll bar on the right to locate the SAS software products that you want to install. This is where you should select the box for **SAS Quality Knowledge Base for Product Data**.



14. Click **Next**.
15. On the **Specify SAS Installation Data File** page, specify the full path of the location where your SAS installation data file will be installed. Click **Browse**.

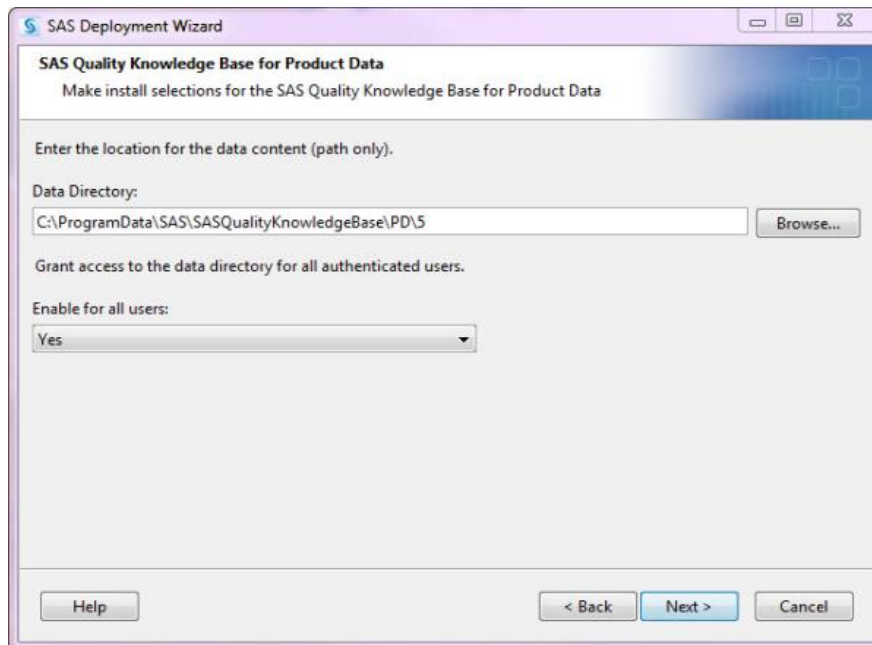


16. Click **Next**.
17. On the **SAS Quality Knowledge Base for Product Data** page, specify the installation location for your data content. Click **Browse** if you want to navigate to a location.

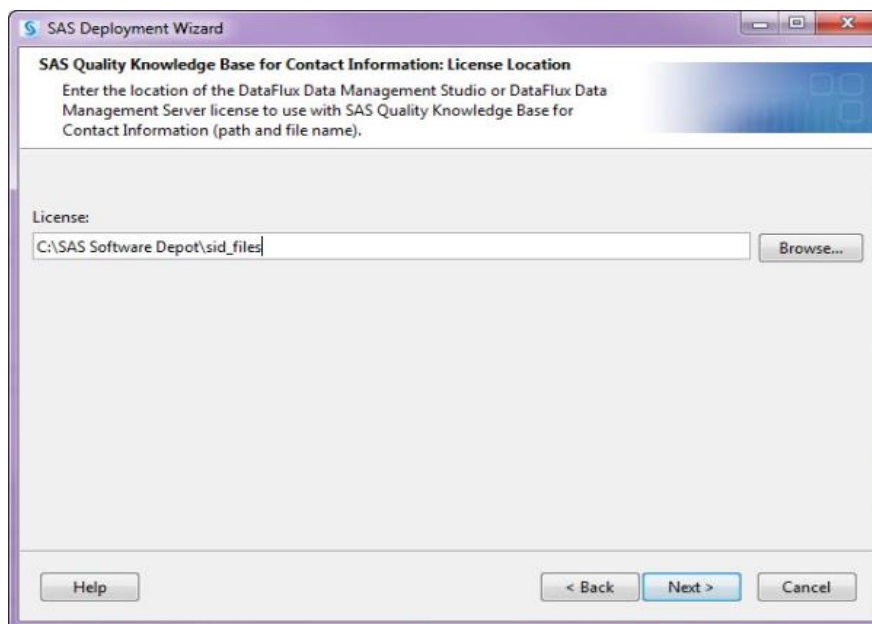




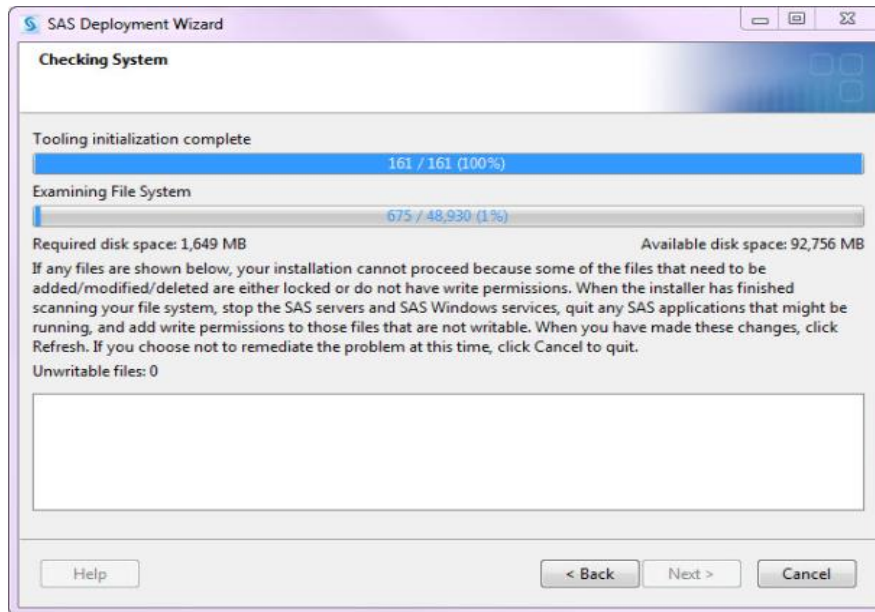
**Note:** By default, QKB PD is not installed in the SASHome directory. The QKB is installed in a separate, hidden directory called ProgramData because the QKB content can be edited by customizing your QKB. If you are reinstalling the QKB, you must select a directory that is different from the directory containing your original QKB PD data.



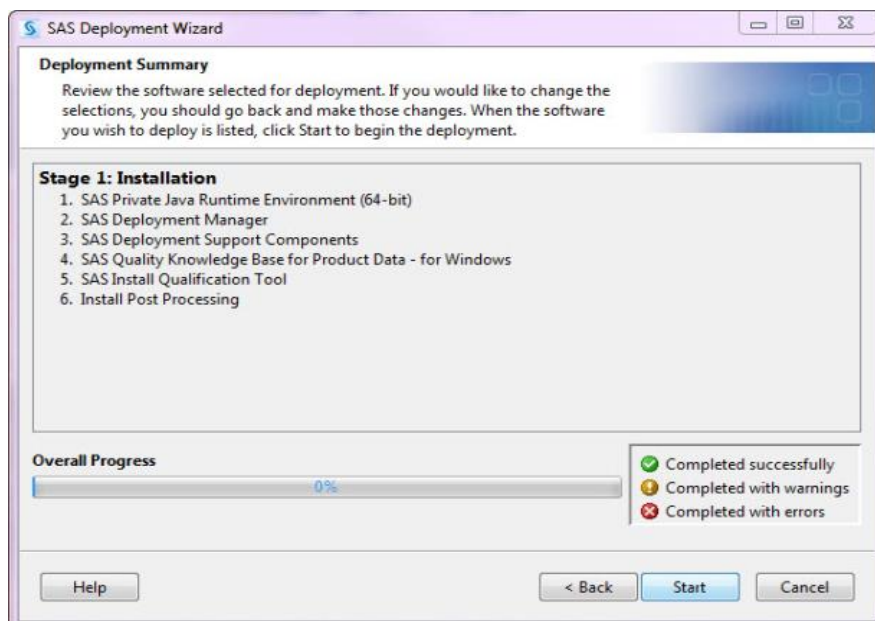
18. Click **Next**.
19. On the **SAS Quality Knowledge Base for Product Data: License Location** page, specify the location where your DataFlux Data Management Studio or SAS license is located. Click **Browse** if you want to navigate to a location.



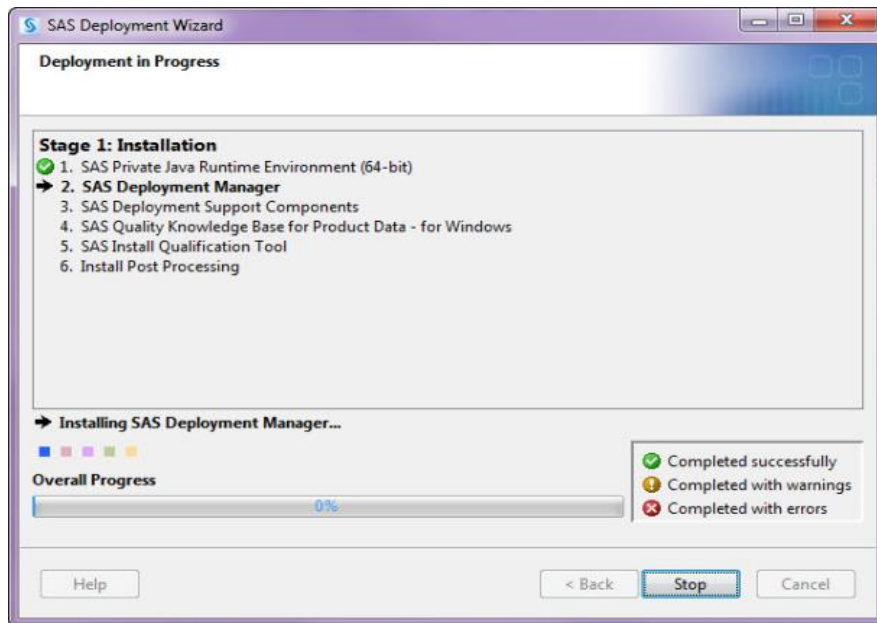
20. Click **Next**.
21. On the **Checking System** page, a tool reviews the software for files that might need to be added, modified, or deleted.



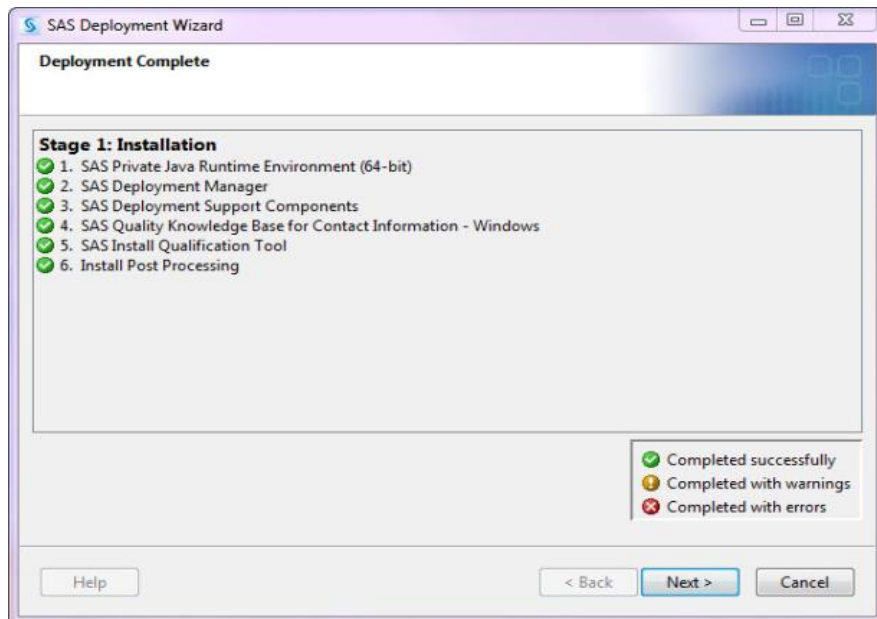
22. Click **Next**.
23. On the **Deployment Summary** page, the software that is included in your SAS software installation is listed.



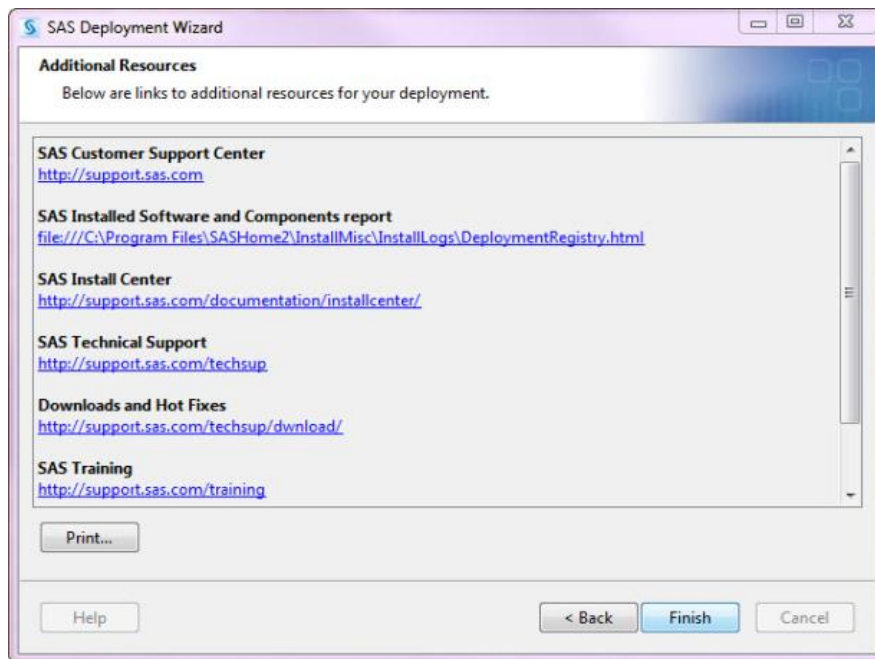
24. Click **Start**.
25. On the **Deployment in Progress** page, the overall progress of your SAS software installation is displayed.



26. On the **Deployment Complete** page, the green check mark next to each item on the installation list indicates that the software was installed successfully.



27. Click **Next**.
28. On the **Additional Resources** page, a variety of locations that you can go to for additional information about your SAS software installation is provided.



29. Click **Finish**.

# Downloading and Installing Using Downloads Site

You can download and install QKB PD using the Windows or UNIX instructions provided in this document.

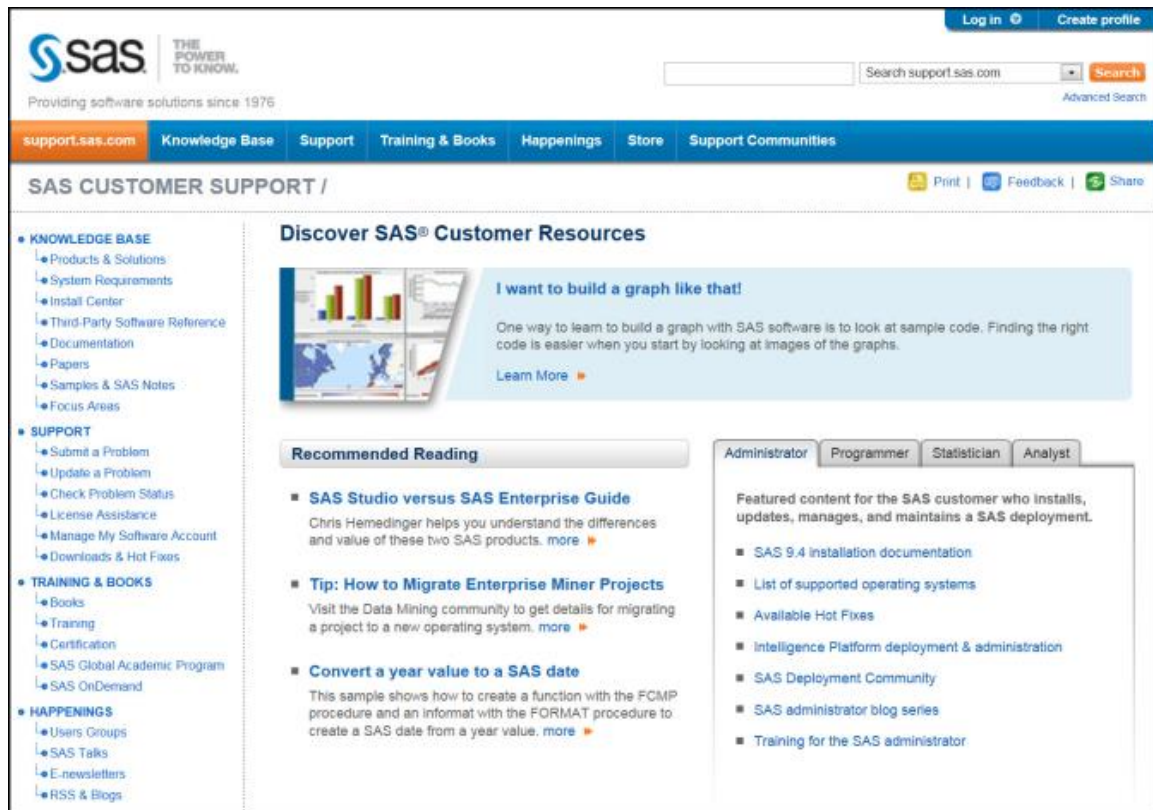
- [Downloading a Quality Knowledge Base](#)
- [Installing the Quality Knowledge Base](#)

## Downloading a Quality Knowledge Base

- [Downloading a QKB for Windows](#)
- [Downloading a QKB for UNIX](#)

## Downloading a QKB for Windows

To download QKB PD 5, go to the SAS Customer Support website, located at <http://support.sas.com>.

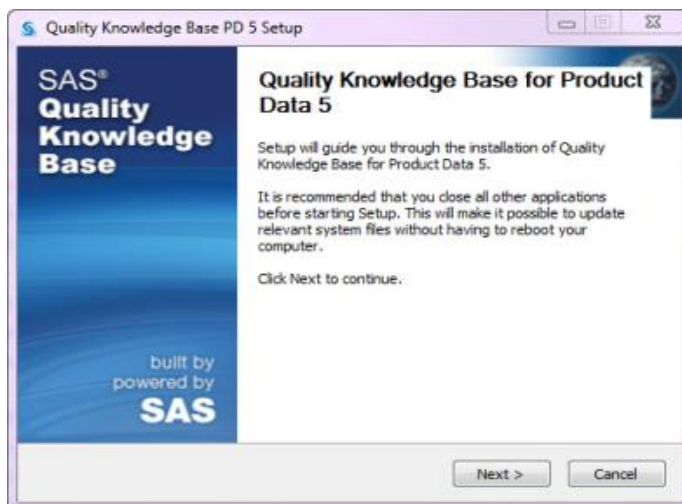


SAS Customer Support Web Site

1. In the menu bar, click **Support**.
2. In the left pane, click **Downloads & Hot Fixes**.



3. From the **SAS System Software** section, select **SAS Quality Knowledge Base (QKB)**.
4. Select **SAS Quality Knowledge Base for Product Data 5**.
5. A list of platform options is available on the SAS Quality Knowledge Base for Product Data 5 Downloads page. Select **Windows 32-bit** or **Windows 64-bit**.
6. A login prompt opens. Enter your e-mail address and password to log in.
7. Read the SAS License Agreement. Click **Accept** or **Do Not Accept**.
8. A message appears, asking **Do you want to run or save qkb-pd-v5-win64.exe (or -win32.exe) from support.sas.com?** Click **Run** or **Save**.
9. Follow the steps in the Quality Knowledge Base for Product Data 5 wizard.





## Downloading a QKB for UNIX

To download QKB PD 5, go to the SAS Customer Support website located at <http://support.sas.com>.

The screenshot shows the SAS Customer Support website. The top navigation bar includes links for 'support.sas.com', 'Knowledge Base', 'Support', 'Training & Books', 'Happenings', 'Store', and 'Support Communities'. A search bar is located on the right. The main content area is titled 'SAS CUSTOMER SUPPORT /' and features a 'Discover SAS® Customer Resources' section. This section includes a 'Recommended Reading' list with items like 'SAS Studio versus SAS Enterprise Guide', 'Tip: How to Migrate Enterprise Miner Projects', and 'Convert a year value to a SAS date'. There is also a 'Featured content' section for administrators, programmers, statisticians, and analysts, listing items such as 'SAS 9.4 installation documentation' and 'List of supported operating systems'. A left sidebar contains a 'KNOWLEDGE BASE' section with links to 'Products & Solutions', 'System Requirements', 'Install Center', 'Documentation', 'Papers', 'Samples & SAS Notes', and 'Focus Areas'. Below this is a 'SUPPORT' section with links to 'Submit a Problem', 'Update a Problem', 'Check Problem Status', 'License Assistance', 'Manage My Software Account', and 'Downloads & Hot Fixes'. Further down are 'TRAINING & BOOKS' and 'HAPPENINGS' sections.

1. In the menu bar, click **Support**.
2. In the left pane, click **Downloads & Hot Fixes**.

The screenshot shows the 'SUPPORT / DOWNLOADS & HOT FIXES' page. The left sidebar has a 'SUPPORT' section with links to 'Submit a Problem', 'Update a Problem', 'Check Problem Status', 'License Assistance', 'Manage My Software Account', and 'Downloads & Hot Fixes'. The 'Downloads & Hot Fixes' link is highlighted. The main content area is titled 'Downloads' and includes a description: 'The Downloads application contains updates for SAS products and solutions, SAS DataFlux software, JMP software, and SAS products.' Below this is a filter section with 'Product Category' and 'Release Date' tabs. The 'Product Category' tab is selected, showing a list of 'SAS System Software' products. The list includes 'AppDev Studio', 'Base SAS Software', 'Enterprise Miner', 'ODBC Drivers', 'SAS Add-In for Microsoft Office', 'SAS Audit, Performance and Measurement', 'SAS BI Dashboard Add-on Installation Scripts', 'SAS Bridge for Esri Software', 'SAS Clinical Data Integration', 'SAS Decision Services', 'SAS Download Manager', 'SAS Drivers for JDBC and SAS/CONNECT', 'SAS PC Files Server', 'SAS Providers for OLE DB', 'SAS Quality Knowledge Base (QKB)', 'SAS Remote Browser Server', 'SAS Scalable Performance Data Server', 'SAS System Viewer', 'SAS Text Analytics', 'SAS Universal Viewer', 'SAS Web Parts for Microsoft SharePoint', 'SAS/ETS Software', 'SAS/GRAPH Software', and 'SAS/IML Software'. The 'SAS Quality Knowledge Base (QKB)' link is highlighted in yellow.

3. From the **SAS System Software** section, select **SAS Quality Knowledge Base (QKB)**.
4. Select **SAS Quality Knowledge Base for Product Data 5**.
5. A list of platform options is available on the QKB PD 5 Downloads page. Select the appropriate download file for your UNIX platform.
6. A login prompt opens. Enter your e-mail address and password to log in.
7. Read the SAS License Agreement. Click **Accept** or **Do Not Accept**.
8. Select the TAR file using the following command:

```
gzip -c -d <path_to>/qkb-pd-v5-<platform>.tar.gz | tar xvf -
```

Replace *<path\_to>* with the directory where the TAR file be located. Replace *<platform>* with the platform name (linux, sol64, and so on).

9. For additional information, refer to [Installing on UNIX](#).

## Installing the Quality Knowledge Base

- [Installing on Windows](#)
- [Installing on UNIX](#)

### Installing on Windows

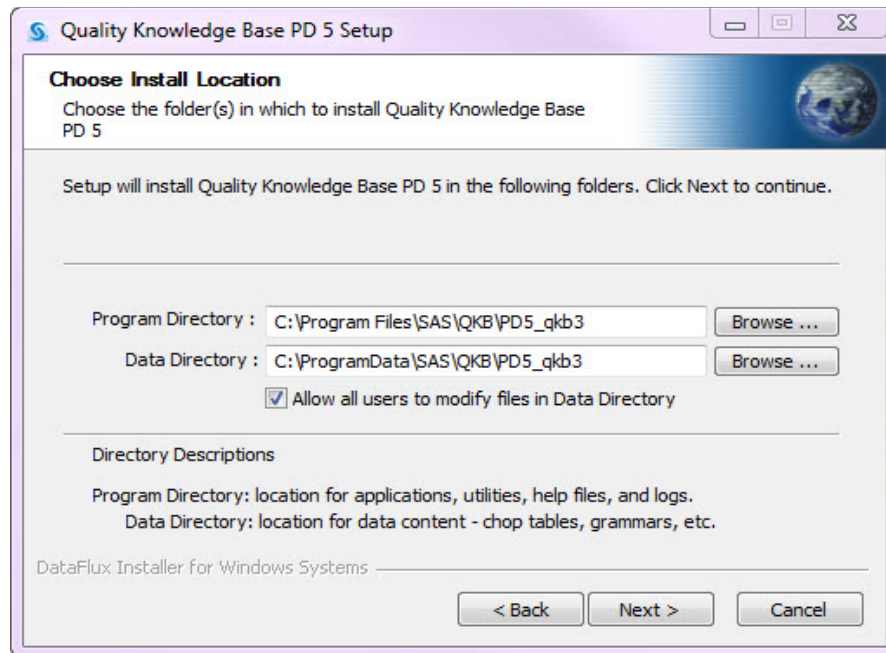
This section takes you through the typical installation process for QKB PD 5 for Microsoft Windows operating systems.

- [Installation Instructions](#)
- [Locales](#)
- [Registration](#)
- [Command Line Installation Options](#)

### Installation Instructions

To launch the QKB PD setup program on Windows, double-click on the setup application file. During the installation, you are prompted for information. Follow the instructions on the **Choose Install Location** page, or see [below](#) for more information:





*Choose Install Location*

## Program Directory

This directory is typically located under your SASHome directory, which is normally in the Program Files directory. The Program Directory contains program files, applications, utilities, help files, and logs. With the exception of the logs, content installed in this directory typically remains unchanged after installation.

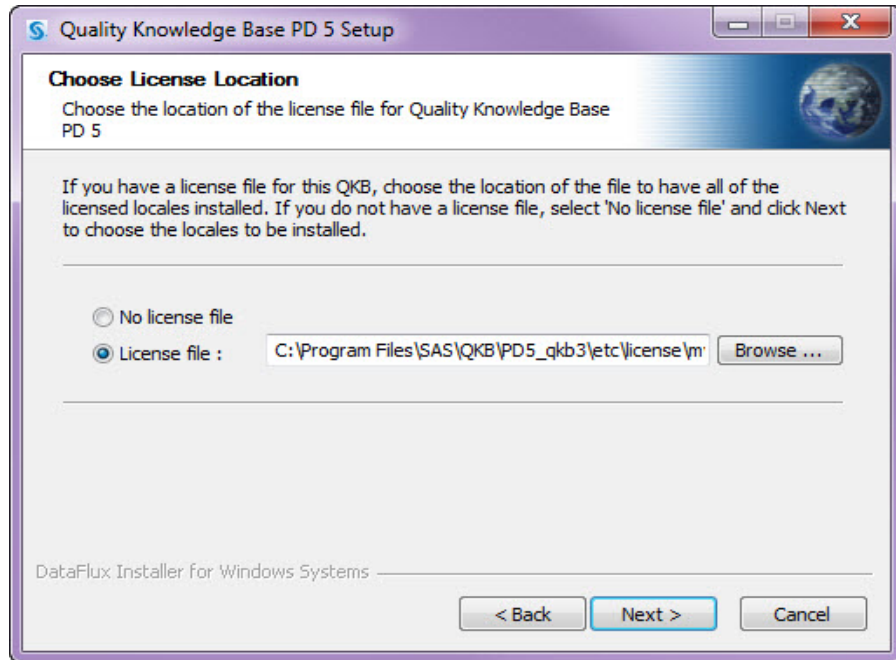
## Data Directory

By default, the data directory is located under the hidden directory called ProgramData. Contents in this directory can be modified by customizing your QKB PD. If you are reinstalling the QKB PD, you must select a directory that is different from the directory containing your original QKB PD data.

## Allow all users to modify files in Data Directory

Some Windows environments restrict who can access directories. If you select this option, it enables all authenticated users full access rights to the Data Directory. If you do not select this option, there are no changes to the security settings of the Data Directory. An administrator will need to provide users or groups explicit access by using Windows security.

The options in the Choose License Location dialog box include **No license file** and **License file** path.



*Choose License Location*

### No license file

Select the **No license file** option to choose from a complete list of available QKB locales that you can install.



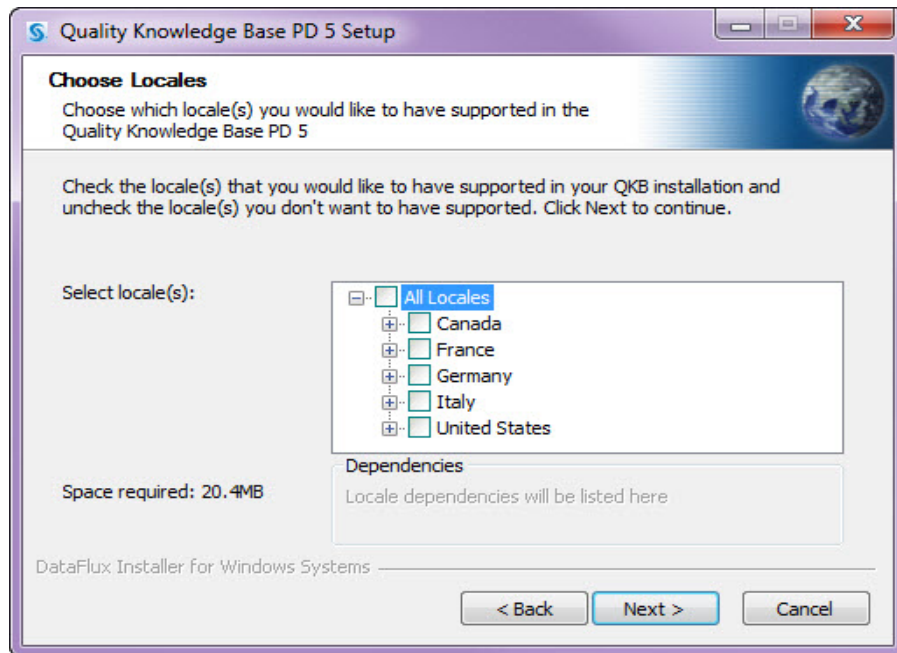
**Note:** You must have a license to use any of the available QKB locales.

### License file

Select the **License file** option if you have your license file and you want to install all licensed locales. Click **Browse** to locate the path and file name of your license file. This file is used to determine which QKB locales are installed.

### Choose Locales

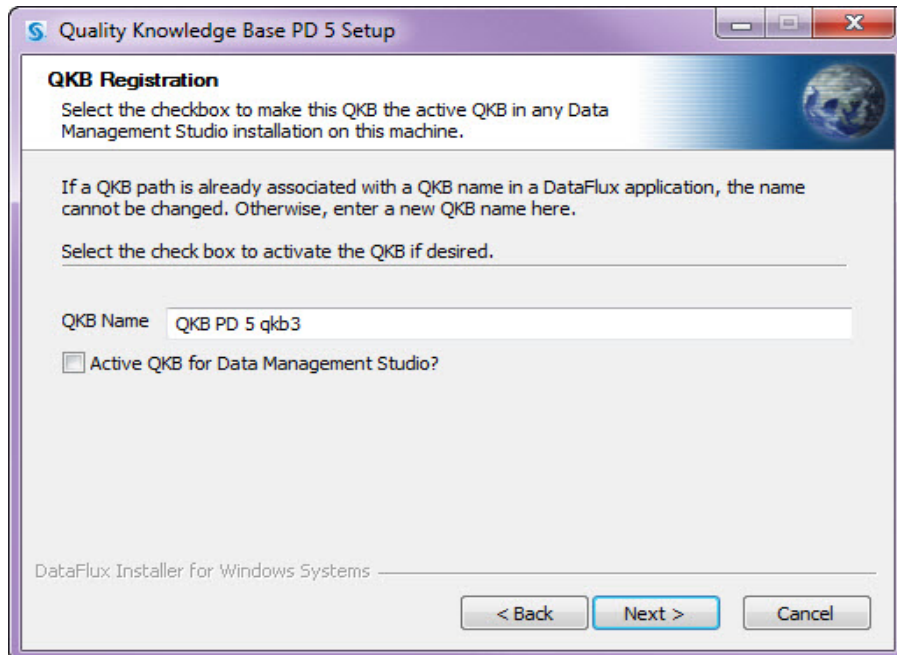
If you selected the **No license file** option, the following dialog box appears with a complete list of available QKB locales. Select one or more locales from the **Select locale(s)** list.



*Choose Locales*

## QKB Registration

The QKB Registration dialog box appears after you have selected your QKB locales or specified the license file.



*QKB Registration*

The **QKB Name** is used to identify the QKB in data management applications. The QKB name must be unique in the system. This means that you cannot use the same name that was used in an earlier QKB installation.

## Active QKB for Data Management Studio?

If you want to set the QKB as the active QKB for DataFlux Data Management Studio, select this option.



**Note:** When you select this option, your previous QKB becomes inactive. Consider this option carefully, and leave the check box unchecked if you want to continue to use a previously active QKB. You can activate the new QKB later within DataFlux Data Management Studio.

## Command Line Installation Option

To install the SAS QKB PD on Windows without user intervention, invoke the setup application from the Windows command line using the following parameters:

Parameter	Description	
<b>/ACTIVE</b>	If present and set to TRUE, the installed QKB PD is set to active for DataFlux Data Management Studio.	
<b>/DATADIR</b>	The path for the Data Directory that contains QKB PD data and logic files.	
<b>/INSTDIR</b>	The path for the Program Directory that contains installation files and documentation.	
<b>/LOCALES</b>	Comma-separated list of ISO code names for the locales to be installed. Locale ISO code names are listed below:	
	Locale Name	ISO Code Name
	Afrikaans, South Africa	AFZAF
	Arabic, Egypt	AREGY
	Chinese, China	ZHCHN
	Czech, Czech Republic	CSCZE
	Danish, Denmark	DADNK
	Dutch, Belgium	NLBEL
	Dutch, Netherlands	NLNLD
	English, Australia	EN AUS
	English, Canada	EN CAN
	English, Hong Kong	EN HKG
	English, India	EN IND
	English, New Zealand	EN NZL
	English, Philippines	EN PHL
	English, South Africa	EN ZAF
	English, United Kingdom	EN GBR
	English, United States	EN USA
	Finnish, Finland	FIFIN
	French, Belgium	FRBEL

Parameter	Description	
	French, Canada	FRCAN
	French, France	FRFRA
	German, Germany	DEDEU
	Greek, Greece	ELGRC
	Hebrew, Israel	HEISR
	Hungarian, Hungary	HUHUN
	Italian, Italy	ITITA
	Japanese, Japan	JAJPN
	Korean, South Korea	KOKOR
	Malay, Malaysia	MSMYS
	Norwegian, Norway	NONOR
	Polish, Poland	PLPOL
	Portuguese, Brazil	PTBRA
	Portuguese, Portugal	PTPRT
	Russian, Russia	RURUS
	Slovak, Slovakia	SKSVK
	Spanish, Mexico	ESMEX
	Spanish, Spain	ESESP
	Swedish, Sweden	SVSWE
	Thai, Thailand	THTHA
	Turkish, Turkey	TRTUR
<b>/QKB_NAME</b>	The name assigned to the SAS QKB PD.	
<b>/S</b>	Case-sensitive capital "S" tells the installer to perform a silent install.	

Below is an example of the command line with parameters for installing the English, United States and French, France locales:

```
qkb-pd-v5-win64.exe /S /QKB_NAME="SAS QKB PD 5"
/INSTDIR="C:\Program Files\SAS\QKB\PD\5"
/DATADIR="C:\ProgramData\SAS\QKB\PD\5"
/ACTIVE="true" /LOCALES="ENUSA,FRFRA"
```



**Note:** For 32-bit Windows installations, the name of the setup application is **qkb-pd-v5-win32.exe**. For 64-bit Windows installations, the name of the setup application is **qkb-pd-v5-win64.exe**.

## Installing on UNIX

This section takes you through the typical installation process for QKB PD 5 for UNIX operating systems.

- [Installation Instructions](#)
- [License Instructions](#)
- [Reinstall or Upgrade Your QKB](#)

### Installation Instructions

Enter the following command at your UNIX command prompt:

```
cd /opt/sas
```

If you want to install your SAS software in a directory other than the default location, /opt/sas, enter that location instead of /opt/sas. Note that all files are installed in a subdirectory called qkb. Enter the following command:

```
gzip -c -d <path_to>/qkb-pd-v5-<platform>.tar.gz | tar xvf -
```

Replace *<path\_to>* with the directory where the TAR file will be located. Replace *<platform>* with the platform name (linux, sol64, and so on). Enter the following command:

```
perl qkb/install.pl
```

The install script takes control of the installation process. You are prompted for information about where to install the QKB data files and which locales will be installed.

### License Instructions

During the installation, you are prompted about the QKB license file. You should have a license file for the QKB.

If you have a license file for this QKB, only the locales that you have licensed are installed. If you do not have a license file, you must choose the locales to be installed individually.

Do you have a license file? (y/n) [n]:

If you answer yes, you are prompted for the location (path and file name) of the license file. This license file is used to determine which QKB locales will be installed.

If you answer no, you are shown a list of QKB locales from which to choose to be installed.



**Note:** You must have a license to use any of the available QKB locales.

## Reinstall or Upgrade Your QKB

During a reinstall or upgrade, you might encounter the following prompts. Answer each prompt as appropriate for your site.

You have chosen a location that already contains an instance of Quality Knowledge Base PD - 5.

Reinstall the software in this location? (y/n) [n]:

This prompt explains that this QKB has already been installed in the installation location that you selected. If you answer yes, a confirmation prompt follows.

If you answer no, the installation stops. You will need to rerun the install script and select a different installation location.

You have chosen a location that already has another SAS product installed.  
Product: Quality Knowledge Base - PD - 4.

Please choose another location for this installation.

This prompt explains that an earlier version of the QKB has already been installed in the installation location that you selected. The installation stops. You will need to rerun the install script and select a different installation location.

Do you want to replace the data in the existing Data Directory? The existing data will be copied to a backup directory. If you choose not to replace the existing data, you can choose a new location for the data.

Replace existing data? (y/n) [y]:

This prompt asks you to confirm that you want to back up and replace the existing data in either a reinstallation or upgrade. If you answer yes, the Data Directory will be backed up. If you answer no, the installation stops. You will need to rerun the install script and select a different installation location.

# Directory Layout

- [Windows Directory Layout](#)
- [UNIX Directory Layout](#)

## Windows Directory Layout

- [Program Directory](#)
- [Data Directory](#)

### Program Directory

After your installation is complete, you will have the following subdirectories in your program directory:

Directory	Description
<b>bin</b>	Executable files for this platform
<b>data</b>	Data specific to this installation
<b>doc</b>	Detailed QKB PD documentation in HTML format
<b>lib</b>	Library files for this platform
<b>share</b>	Shared (not platform-specific) data

### Data Directory

You will have the following subdirectories in your data directory:

Directory	Description
<b>chopinfo</b>	Chop table files used in QKB PD definitions
<b>grammar</b>	Grammar files used in QKB PD definitions
<b>locale</b>	Metadata about QKB PD data types and definitions
<b>phonetx</b>	Phonetics libraries used in QKB PD definitions
<b>regexlib</b>	Regular Expression libraries used in QKB PD definitions
<b>scheme</b>	Scheme files used in QKB PD definitions or applied directly to data in a data job
<b>vocab</b>	Vocabulary files used in QKB PD definitions



# UNIX Directory Layout

After your installation is complete, you will have the following subdirectories in your installation directory:

Directory	Description
<b>qkb/data</b>	Data specific to this installation.
<b>qkb/doc</b>	Detailed QKB PD documentation in HTML format.
<b>qkb/lib</b>	Library files for this platform.
<b>qkb/share</b>	Shared (not platform-specific) data.
<b>qkb/install.pl</b>	The installer (see the installation instructions).
<b>qkb/ReleaseNotes</b>	Release notes for this platform.
<b>qkb/README</b>	A text file containing brief information about getting started.

# Merging with an Existing QKB

If you made customizations in a previously installed QKB, you might want to merge your newly installed QKB with the previously installed QKB so that you can save your customizations. See the DataFlux Data Management Studio Online Help for information about how to merge your existing QKB with the latest QKB.

# Recommended Reading

Here is the recommended reading list for this title:

- DataFlux Data Management Studio: User Guide
- DataFlux Data Management Studio: Installation and Configuration Guide
- SAS Data Quality Server: Reference
- SAS Data Quality Server Procedures
- SAS Data Quality Accelerator for Teradata: User's Guide
- SAS MDM: User's Guide
- SAS MDM: Administrator's Guide

For a complete list of SAS books, go to [support.sas.com/documentation](http://support.sas.com/documentation). If you have questions about which titles you need, please contact a SAS Book Sales Representative:

SAS Books  
SAS Campus Drive  
Cary, NC 27513-2414  
Phone: 1-800-727-3228  
Fax: 1-919-677-8166  
E-mail: [sasbook@sas.com](mailto:sasbook@sas.com)  
Web address: [support.sas.com/bookstore](http://support.sas.com/bookstore)