



# Setting Up SAS<sup>®</sup> 9 National Language Support in Windows Environments



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## Introduction

*National Language Support (NLS)*, a component of Base SAS® software, comprises features that enable a software application to function correctly in its target global market. In the SAS® System, these features ensure that SAS software can handle national data correctly (in the English edition) and that it can be *localized*. Localized software is configured to handle local language and cultural conventions. This document uses examples that are based on SAS 9.1 to explain how to install the NLS features for SAS®9 in a Windows XP environment.

## Installing National Language Support for SAS®9

National Language Support is added during the installation process. This document uses SAS 9.1.3 to illustrate how to add National Language Support. The process for installing national language support in other releases of SAS®9 is similar.

To begin, follow the installation steps in the [User Installation Guide for SAS® 9.1.3 Foundation for Microsoft® Windows®](#). Information about National Language Support installation begins on page 14 of the user guide, where the Language Selections page in the installation wizard is shown:



For a first-time installation, along with any localizations, **you must also select** the options **English with DBCS and Unicode support** and **English**. These selections include National Language Support into your software. (If you have to reinstall SAS and the English edition was installed previously, you do not have to reinstall the English edition.)

Localized editions (for example, Chinese [Simplified] or French) of SAS are optional. As stated earlier, a *localized edition* of the software is one that reflects the specific local conventions, language, and culture of a particular geographical region. The benefit to installing localized editions of SAS is that you do not need to perform post-installation configuration for National Language Support. Moreover, the interface for a localized edition is translated into the language that is appropriate for that locale.

If you are using the English edition only, select the previously mentioned options (**English with DBCS and Unicode support** and **English**) to install for that edition. However, if you select these options, you must perform post-installation configuration, which is discussed in the next section.

After the installation is finished, shortcuts to your internationalized or localized editions of SAS are added to your **Programs** menu (**Start ► Programs ► SAS**).

**Note:** It is possible to skip the **Language Selection** step during installation and add NLS support later, but you will need to reinstall SAS. To do this, execute the setup.exe file from the installation CD's root folder to invoke the SAS® Software Navigator. During the reinstallation process, select **Add components to SAS** on the Existing SAS Installation Found page of the wizard, as shown here.



Then click **Next** and follow the remaining prompts in the wizard.

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## Performing Post-Installation Configuration for SAS®9 National Language Support

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After you have successfully installed the English edition of SAS with DBCS and Unicode support, you must perform the following post-installation configuration steps in order to run a localized SAS image:

1. Navigate to the SAS®9 NLS configuration file (sasv9.cfg):
  - For SAS 9.1, the file is located in **C:\Programs\SAS\SAS 9.1\nls\ld**.
  - For SAS 9.2, the file is located in **C:\Programs\SAS\SASFoundation\9.2\nls\ld**.
2. Open sasv9.cfg with Windows Notepad, and edit the configuration file for your language, as explained in the following sections.

## Asian Languages

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In the configuration file:

1. Search for the -DBCSLANG option.
2. Comment out the default -DBCSLANG option:

```
/* -dbcslang japanese */
```

Comment out this option rather than delete it so that you can preserve the default setting.

**Note:** If your language is Japanese, you do not need to change this option because -DBCSLANG JAPANESE is the default setting. For more details, see SAS Note 18317, [Default DBCS session locale is set to Japanese on SAS®9](#).

3. Add a new -DBCSLANG option for your language, as shown here:

```
-dbcslang language
```

Valid values for *language* are as follows:

- **Chinese** [for Chinese (Simplified)]
- **Taiwanese** [for Chinese (Traditional)]
- **Japanese**
- **Korean**

## European Languages

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In the configuration file:

1. Search for the -DBCS option.
2. Comment out the default -DBCS, -DBCSTYPE, and -DBCSLANG options:

```
/* -dbs
   -dbcstype pcms
   -dbcslang japanese */
```

Comment out these options rather than delete them so that you can preserve the default setting.

3. Add the -LOCALE option for your language:

```
-locale locale-name
```

In this syntax, *locale-name* specifies your particular locale. For example, -LOCALE fr\_FR designates the French\_France locale and -LOCALE es\_PR designates the Spanish\_PuertoRico locale. Valid locale values are available in Chapter 21, “Values for the LOCALE= System Option” in the [SAS® 9.1 National Language Support \(NLS\) User's Guide](#).

## Unicode (UTF-8) Server

To configure SAS as a Unicode (UTF-8) server:

1. Search for the -DBCSTYPE and the -DBCSSLANG options.
2. Comment out the default -DBCS,-DBCSTYPE, and -DBCSSLANG options:

```
/* -dbcstype pcms
   -dbcslang japanese */
```

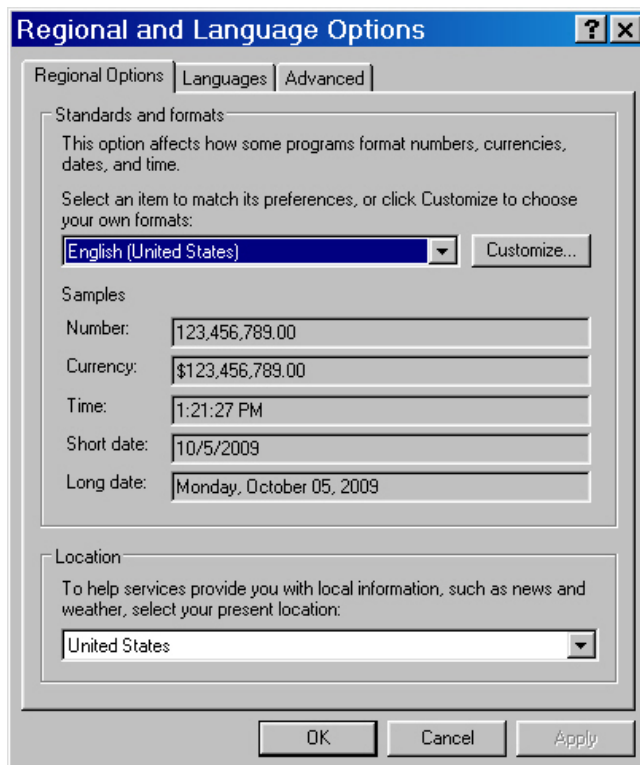
3. Add the -ENCODING= option:

```
-encoding=utf-8
```

## Configuring Regional and Language Settings

In addition to installing National Language Support in SAS, you also must configure the regional and language settings for Windows, as follows:

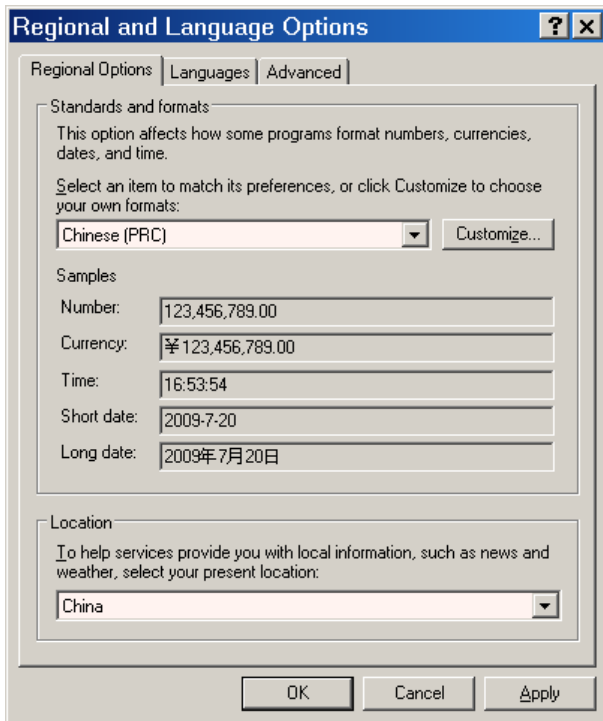
1. Select **Start ► Settings ► Control Panel ► Regional and Language Options** to display the Regional and Language Options dialog box.



**Note:** The next two steps are for Java applications. If your system does not have any Java-based SAS applications installed (for example, SAS® Management Console), you can move directly to step 4 because those configurations are optional.

2. In the **Standards and Formats** section on the **Regional Options** tab, select your locale. For example, in the following display, Simplified Chinese (**Chinese [PRC]**) is selected.

**Note:** For Traditional Chinese, you must select **Chinese (Taiwan)**.



**Note:** For Unicode support, select **English (United States)**.

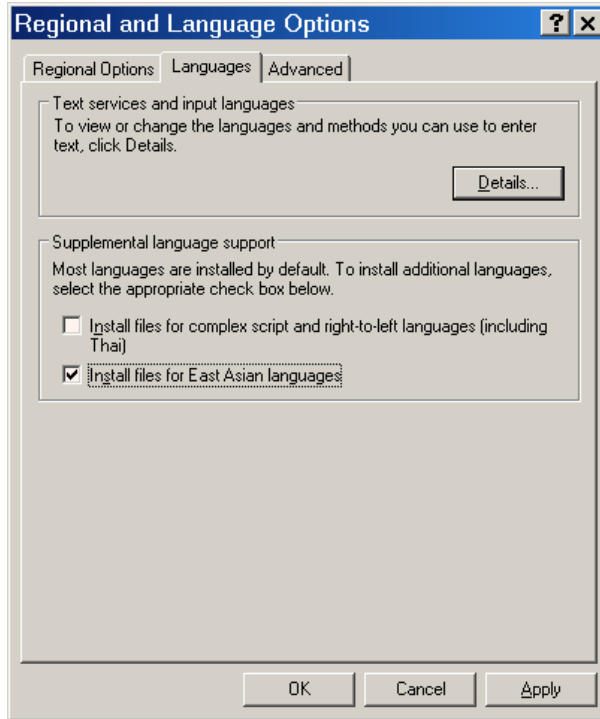
3. In the **Location** section, select your specific location (for example, **China**, as shown in the preceding display).

**Note:** For Unicode, select **United States**.

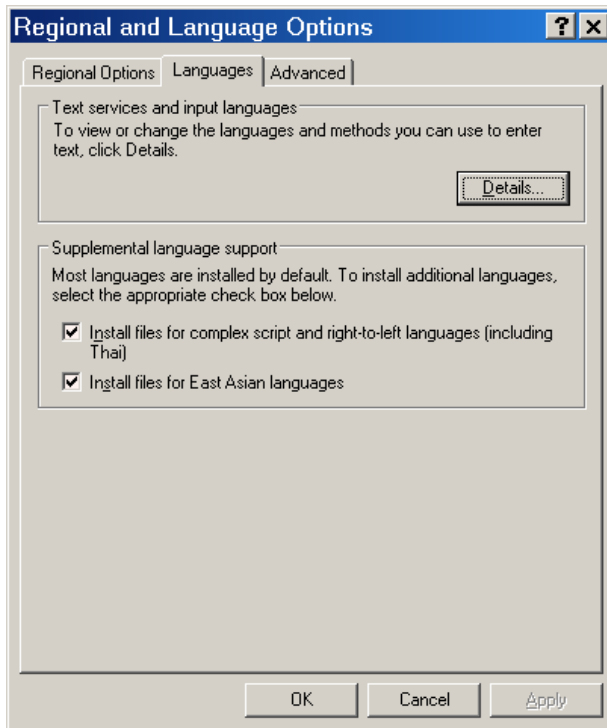
4. Install the appropriate fonts:

- **East Asian languages:**

- a. Click the **Languages** tab.
- b. Under **Supplemental language** support, select the check box **Install files for East Asian languages**, as shown in the following display:



- **European languages:** This step is not applicable for European languages because they are installed by default.
- **Unicode support:**
  - a. Click the **Language** tab.
  - b. Under **Supplemental language support**, select both check boxes [**Install files for complex script and right-to-left languages (including Thai)** and **Install files for East Asian languages**], as shown in the following display:



During this step, you might receive a message similar to the following:

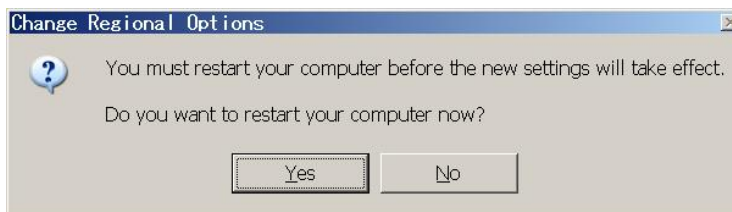
The required files are already installed on your hard disk. Setup can use these existing files or Setup can recopy them from your original Windows CD-ROM or from a network share.

Would you like to skip file copying and use the existing files? (If you click No, you will be prompted to insert your Windows CD-ROM or to supply an alternate location where the needed files may be found.)

Yes      No

If you receive this message and you do not have the Windows CD, contact your system administrator.

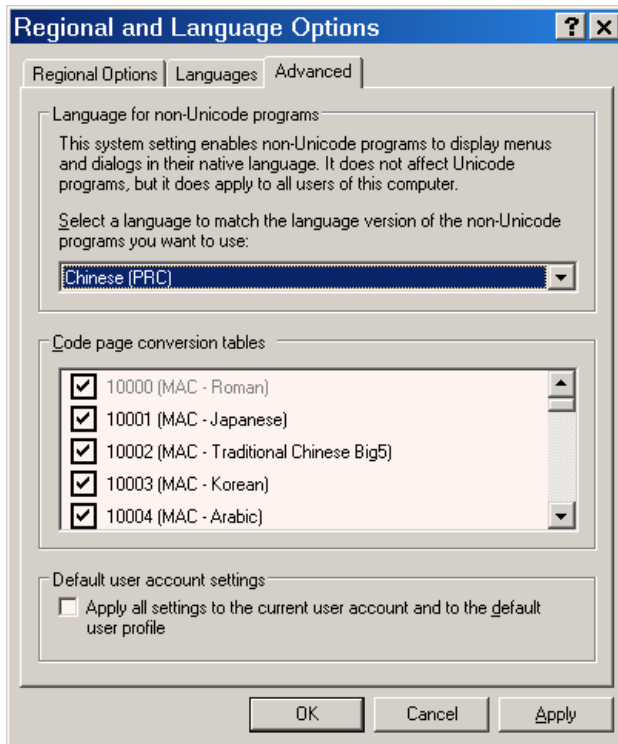
You might receive the following message saying that you need to restart your computer:



However, you can wait until you finish step 5 to restart it, so click No when the dialog box appears.

5. **For all languages:** Under **Language for non-Unicode programs** on the **Advanced** tab, select a language [for example, **Chinese (PRC)**] to match the language edition of your non-Unicode programs.

**Note:** As mentioned in step 2, you must select **Chinese (Taiwan)** for Traditional Chinese. For Unicode support, select **English (United States)**.



6. Click **OK** and then restart your computer.

Your NLS working environment will be active after you restart your computer.



