



ActiveProject

Application Note

Preparing ActiveProject for International Use

v2001

May 2001

Technical Support

For technical support, call the following phone number between 8:00 AM and 6:00 PM EST:

(781) 270-5537

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Introduction

If you want to use an ActiveProject web site in a region where a non-Western character set is used, you need to set up the ActiveProject database and web site so that users can enter and view data with a non-Western character set.

You can also change the language used in the project web site's interface by localizing certain ActiveProject files. Framework Technologies Corp. provides these files, but does not localize them for you.

Contact the Framework Technologies Sales Consulting Group or Technical Support for information on localization.

Notes ■ In this release, you cannot localize the user interface for ActiveProject Builder, the error messages that you receive from the ActiveProject server, dialog boxes and error messages that are generated and displayed from the Inbox or other ActiveX control, or dialog boxes and error messages that are generated and displayed from any of the Browser Tools.

ActiveProject will not translate data from one language to another. If you enable data entry in a different language, anyone who accesses a project web site for that database must use the same language.

What's in this document?

This document describes the procedures that you need to perform to allow you to enter and view data with ActiveProject in the language for your region or location. This document includes the following sections:

- **Known issues** – Lists all known issues regarding using non-Western character sets with ActiveProject.
 - **Database changes** – Describes the steps that you need to perform to change the character set for the DBMS systems that are supported for ActiveProject Server. This allows you to enter and view data in the language you choose.
 - **ProjectArea changes** – Describes the steps that you need to perform to change the character set that your ActiveProject project web sites use to display information. This allows you to view user interface elements, such as menus, buttons, and tabs, in the language you choose.
- Note** ■ To view the user interface elements in the selected language, you must have a localized version of the required files. Contact the Framework Technologies Sales Consulting Group or Technical Support for information on localization.

Known issues

Use Internet Explorer for best results

Because Netscape Navigator and Communicator often process and displays non-Western character sets slowly, we recommend that you use Microsoft Internet Explorer if you are using ProjectAreas with non-Western character sets.

Verify that you are using the correct version of MFC

If have chosen a language that uses a non-Western character set, and you are experiencing problems with ActiveProject Server, you should verify that you are using the correct version of Microsoft Foundation Classes (MFC).

To verify the version, use Windows Explorer to locate each of the files listed below. For each file, right-click the file, choose **Properties**, and then click the Version tab. Make sure that the version number listed for each file matches the version numbers specified below:

- <WINSYSDIR>\Mfc42.dll: 6.0.8665.0
- <WINSYSDIR>\Mfc42u.dll 6.0.8665.0
- <WINSYSDIR>\Msvcr.dll 6.0.8797.0

If you are not using the correct versions of these files, you need to obtain and install the correction versions.

Color schemes may appear to be changed or lost

If you have ProjectAreas that use different languages and the ActiveProject system administrator changes the language for a ProjectArea, the color schemes defined for the ProjectArea may appear to be lost or changed. This is because the color schemes are specific to a language.

If you change a ProjectArea's language, the ProjectArea Administrator should either re-define the color scheme for the ProjectArea by using the ProjectArea Administration web site, or should manually move the color scheme files from the old language's directory to the new one on the server. For information about moving color schemes between ProjectAreas, contact Framework Technical Support.

May not be able to restore an archive into certain languages

The character sets for certain languages contain extensions to more common character sets. For this reason, you may be able to restore an existing archive into a ProjectArea that uses one of these languages, but may not be able to archive that same project and restore it back into the ProjectArea from which it came.

[Reviewers, please check this. It is to address issue #3973.]

Database changes

To support a non-western language in ActiveProject Server, your relational database (DBMS) must also be set to a character set/code page that supports the language that will be used to enter data. Choosing this language affects the entry and viewing of data for the project. It does not affect the user interface.

The following sections describe how to change the character set for MSDE, SQL Server, or Oracle databases. After you have changed the database's character set, you must also select the user interface language for projects in each ProjectArea (see "ProjectArea changes," on page [x]).

Changing the character set for MSDE and SQL Server databases

MSDE (Microsoft Data Engine) and Microsoft SQL Server™ 7.0 run all of the databases on a server in one character set. The character set is selected when the database server is installed.

Note ■ SQL Server 2000 supports multiple databases, with each database running a different language. For SQL Server 2000, you need only to generate the database to the desired localization settings. See step 3 below.

The MSDE installation that comes with ActiveProject Server v2001 installs and uses the “ISO-1252 – Western” character set. This character set supports most Western languages (for example, English and French).

In order to change the character set that MSDE or SQL Server uses, you must rebuild the master database to use the desired character set. Follow these steps to create a new database in the correct character set and migrate existing projects to the new ProjectArea:

1. Archive all projects in all affected ProjectAreas. The rebuild process removes any existing databases in MSDE or SQL Server. For this reason, if you have existing ProjectAreas, you need to archive them before you switch so that you can restore the ProjectAreas later.
2. Delete all affected ProjectAreas.
3. Depending on your database server, do one of the following:
 - **For MSDE or SQL Server 7.0** – use the rebuildm.exe utility to change the character set for the MSDE/SQL Server (see “Running the rebuildm.exe utility,” below).
 - **For SQL Server 2000** – create a new database using the preferred character set, selecting the preferred language. Make sure the language selection you choose uses case-insensitive sorting.
4. Make changes to your ProjectAreas as described in “ProjectArea changes” on page [x].

Running the rebuildm.exe utility

Use this procedure to change the character set for an MSDE or SQL Server 7.0 with the rebuildm.exe utility. You do not need to run this procedure if you are using SQL Server 2000.

1. Stop all services and exit from the SQL Server Service Manager.
2. On the server, use Explorer to go to the <MSDE/SQL Server install directory>\binn directory.
3. Double-click **rebuildm.exe**. The Rebuild Master dialog box appears.
4. Click the **Browse** button to search for the source directory that contains the default master data base and character files:
 - If you are using MSDE, you can find the default master database and character files on the ActiveProject Server CD, in the MSDE\defmdf directory.
 - If you are using SQL Server, the default master database and character files are on your original SQL Server CD.
5. Click the **Settings** button. The Character Set/Sort Order/Unicode Collation dialog box appears.
6. In the Character Set box, choose the character set that you want to use.
7. In the Sort Order box, select the sort order that you want to use.
 - Note** ■ The sort order must be one of the **case-insensitive** options.
8. Under Locale Identifier, leave the selected value.
9. Clear all of the checkboxes except for the **Case-insensitive** checkbox.
 - Note:** In SQL Server 2000, case-insensitive options are available when the database is created.
10. Click **OK** to close the Character Set dialog box.
11. Click **Rebuild**.

Changing the character set for an Oracle database

Oracle databases use a character set that was selected when the database was created. They also use values for National Language Support (NLS) variables to determine searching and sorting methods. In order to use a ProjectArea with an international character set on an Oracle database, the database needs to be using a character set that supports the necessary languages and the NLS parameters for the database need to be set to reflect the correct locale. At a minimum, the NLS_LANGUAGE, NLS_TERRITORY and NLS_DATE_LANGUAGE parameters need to be set to support the locale for the database (the defaults for these values are usually dependent on the locale of the operating system).

With an Oracle database, there are two ways to switch the character set that a ProjectArea is using:

- By running the ALTER DATABASE SQL Plus command. This method may not work in all cases, depending on original character set and the target character set and whether there is a clear path for migrating data to the target character set.
- By creating a new database in the correct character set, creating a new ProjectArea using the new database, and migrating all projects to the new ProjectArea using archive/restore. To use this method, follow the steps outlined in the “Creating a new database” section below.

Creating a new database

Follow these steps to create a new database in the correct character set and migrate existing projects to the new ProjectArea:

1. Archive all projects in all affected ProjectAreas. The rebuild process removes any existing databases in MSDE or SQL Server. For this reason, if you have existing ProjectAreas, you need to archive them before you switch so that you can restore the ProjectAreas later.
2. Delete all affected ProjectAreas.
Note ■ You do not have to delete the ProjectAreas if you keep the original Oracle database that is being used by the ProjectAreas. This allows you to keep working ProjectAreas intact until you have verified that new ProjectAreas using the new character set are working correctly.
3. Generate a new database with the new character set. For information about how to change NLS variables and create or change a database to run with a specific character set, please refer to your Oracle documentation.
4. Make changes to your ProjectAreas as described in “ProjectArea changes” on page [x].

ProjectArea changes

ActiveProject v2001 supports the use of one language per ProjectArea. You choose the language for a ProjectArea on the General tab of the ProjectArea Properties dialog box in ActiveProject Server Administration. Choosing the language for the ProjectArea affects the language that is used to display user interface elements, such as tab, field, and button names, on all ActiveProject web sites in the ProjectArea.

Note ■ To view the user interface elements in the selected language, you must have a localized version of the required files. Contact the Framework Technologies Sales Consulting Group or Technical Support for information on localization.

Follow these steps to prepare a ProjectArea for use with a different language:

1. If the language that you want to use for a ProjectArea does not appear in the Languages branch of the Console tree, you need to add the language. For more information see “Adding languages” in ActiveProject Server Administration Help.
2. Once you have created a database that supports the language that you want to use, and the language appears in the Languages branch of the Console tree, you can create a ProjectArea that uses the preferred language. Be sure to create one ProjectArea and one database for each language you want to use. For more information see “Creating ProjectAreas” in ActiveProject Server Administration Help.
3. Restore your archived projects into the new ProjectArea. For more information, see the ActiveProject Server Administration Guide or ProjectArea Administration Help.