

FORMFUSION

1.9 Upgrade Instructions

Document version 1.9.2 – Unix/VMS/NT

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NOTES FROM THE PROGRAMMING STAFF

**** Please perform this upgrade in your Test environment to ensure all FormFusion templates are printing correctly *BEFORE* upgrading your Production environment ****

Who should perform this installation? We recommend that your system DBA or host system administrator perform this installation. The person installing the software on the server should have a working knowledge of Banner and the text editor used on their system.

We welcome your suggestions and ideas! As we continue to enhance this program, we will need end users' input on how to make it better. As software developers, we try to identify the best solution to a problem without having the opportunity to use the application in all of the "real world" situations and configurations. We would welcome your feedback on how we can make our software work best for you. We are always interested in improving and adding features that make the end user's life easier—and the application better. If you have suggestions for improving FormFusion or ideas for additional products that you would like to see, please contact us at any of the above addresses.

If you have any questions during this upgrade, please contact us at:

Web site support: <http://www.evisions.com/support>
HelpDesk: <http://helpdesk.evisions.com>
Phone: 714.824.5252



BEFORE YOU BEGIN: A BRIEF OVERVIEW

This document will guide you through installation of the newest version of FormFusion. If you have questions please call before proceeding. You will be uninstalling the client software and installing a newer version of the client and server. The server will be compiled in the same manner as the original version of the software using the eviadm server process.

We recommend that you back up your FormFusion data before performing the automated upgrade (Step 3). Although the back up is optional, we encourage you to take this step and provide you with information in the **Backing Up FormFusion Data** section to assist you with the back up process. The conversion process has been fully tested by our staff; however, Evisions accepts no liability for any lost or damaged data resulting from the upgrade process.



WHAT'S NEW IN THIS VERSION

This version includes a number of behind the scenes enhancements to various portions of the software.

Developer Client

General

- Added a workaround for a problem with Oracle 10g (and later) databases. The problem has to do with the way LONG and LOB datatypes are returned during queries, see ORA-24816 for more information. This problem can cause the text for email bodies to be cut off after around 250 words.

FormDirector

- Added a BDMS tab for BDMS Integration.

Server (evilp)

- Fix for ORA-24816 as explained above.
- Support for BDMS functionality



STEP 1: INSTALLING THE NEW CLIENT

- 1.1 Double-click the new executable that we have provided via download and let the installation run.
- 1.2 When you are asked to choose the Setup Type, we recommend the following selections:
 - For an Administrator's installation, choose the **Full** install option.
 - For a workstation that is not expected to perform any administration of FormFusion, choose the **Typical User** option.



STEP 2: UPGRADING THE DATABASE TABLES

There are several tables that will be updated by completing the steps below.

- 2.1 Launch the FormFusion Developer and select the database to upgrade from the drop-down box.
- 2.2 Next click the **Login** button. Enter your FormFusions username/password.

After logging in, the **Database Conversion** dialog will appear and guide the conversion process. Click **Next** to begin the conversion process.

Since a new table (EVIFDBMS) is being created, a prompt will ask if a public synonym should be created for this table. Click **Yes** to create synonym.

- 2.3 Click **Finish** when prompted to complete the database upgrade.

At this point, a dialog should appear informing you that a newer version of FormFusion Server exists on your local machine. This message is referring to the source files that are compiled to create the EVILP process on your server. Click **Yes** to copy the newer files to your server.

You have completed the Administration steps for configuring a database for use with FormFusion 1.9.6. To configure another database, repeat the configuration process beginning with step 2.1 above.

NOTE: PLEASE CONTACT EVISIONS TECHNICAL SUPPORT IF YOU HAVE ANY PROBLEMS WITH THIS PHASE OF THE UPDATE.



STEP 3: COMPILING THE NEW SERVER PROCESS

- 3.1 The **eviadm.pc** file is located in the **C:\Program Files\Evisions\FormFusion\Server** directory on the client component. FTP the file in ASCII mode to the evisions directory on the server host.
- 3.2 Log in to the Banner account.
- 3.3 Change to the **evisions** directory that contains the new **eviadm.pc** file you transferred.
- 3.4 Compile **eviadm.pc** by entering the commands specific to your system:

Unix

```
make -f $BANNER_LINKS/sctproc.mk eviadm  
CHECKOPT=sqlcheck=limited
```

VMS

```
@gen$com:sctproc eviadm "limited"
```

NT

Set the following environment variables by typing the text below, replacing **PROD** with the appropriate database instance (**PPRD**, **TRNG**, **SEED**, etc.):

```
ORAENV PROD
```

Set your path according to your specific system. Make sure to use the short directory name if there are spaces or any directory names exceeding eight characters.

```
set EVIPATH=c:\sct\banner\evisions
```

Enter the text below:

```
set INCLUDE=%EVIPATH%;%INCLUDE%
```

Compile **eviadm.pc** by entering the command below **on one line** with no carriage returns. The text appears on multiple lines below for illustration purposes only!

```
perl %BANNER_HOME%\general\misc\sctproc.pl  
-prog="%EVIPATH%\eviadm.pc"  
-checkopt="sqlcheck=limited include=%EVIPATH%"
```



STEP 4: RUNNING THE NEW SERVER PROCESS

4.1 Choose the correct path based on your system and start **eviadm**:

Unix

Entering the following text at the command prompt from **\$BANNER_HOME/evisions**:

```
$EXE_HOME/eviadm
```

VMS

Enter the following text at the command prompt from **BAN_HOME:[evisions]**:

```
run GEN$EXE:eviadm
```

NT

NOTE: *IF YOU INTERRUPTED THE INSTALL PROCESS AFTER EXECUTING THE PREVIOUS STEP, BE SURE TO RE-ESTABLISH THE PROPER ORACLE AND BANNER ENVIRONMENTS BY EXECUTING THE EVIPATH AND INCLUDE COMMANDS IN STEP 3.4.*

Enter the following text at the command prompt from **e:\sct\banner\evisions**:

```
e:\sct\banner\general\exe\eviadm
```

NOTE: *IN THE TEXT ABOVE, E:\SCT\BANNER REPRESENTS YOUR SYSTEM'S PATH TO THE GENERAL\EXE DIRECTORY.*

4.2 You should now see the FormFusion Server Administration menu. This menu will allow you to compile the **evilp** server software. The main menu will present you with two options:

"A" - Import Tables

"B" - Compile FormFusion Software

Select option "**B**" unless Evisions Technical Support provides you with other instructions.

- 4.3 Because FormFusion works directly within Banner security, the server process needs to be compiled with the proper Banner encryption seeds. You will be presented with the following options:

1. Manually type these values
2. Automatically detect (requires a DBA user login)
3. Reference seed values in "guassed.h"

Option 2 is used most commonly so that the menu will automatically detect what the seed values are for your system. After selecting any of the above options you will be presented with an additional prompt asking for information.

If you selected option 2 you will be required to provide a valid Oracle DBA login name and password. The menu then goes to the proper Banner table and retrieves the seed values that FormFusion needs.

- 4.4 After providing the required seed values you will be presented with the different versions of **evilp** that exist in your FormFusion program table (EVIPROGRAM). You will be prompted to enter the version you would like to compile.

You should select **version 1.9**. If you do not see this version or a newer version than this one, please contact Evisions technical support.

- 4.5 Once you have accepted the default or typed in the version to compile, you will be prompted with the following:

Choose the operation to perform:

- A. Compile/Execute all
 1. Execute "sh comppcl.shl"
 2. Compile "evilp"
- X. Exit this menu

Select option **A** unless Evisions Technical Support provides you with other instructions.

The **eviadm** program will extract from the database the version you have typed and compile the source code into an **evilp** executable.

NOTE: PLEASE LET US KNOW IF THE COMPILATION DID NOT COMPLETE SUCCESSFULLY. WE MAY BE ABLE TO SPECIFY ADDITIONAL FLAGS TO COMPLETE THE COMPILATION PROPERLY ON YOUR SYSTEM.

You have now completed the upgrade! Since you have previously used FormFusion with Banner, you do not need to modify your **gjajobs** file.



BACKING UP FORMFUSION DATA

There are several methods that can be used to back up data in an Oracle database. The technique we recommend to backup your FormFusion installation is to use the database dump technique, which stores all Oracle data from specific tables into a dump (DMP) file.

On your host server, create a file named **export_ff1_6.par** and add the following text to the file:

```
TABLES=(
  EVIARCHV, EVIARUSR, EVIAUDIT, EVIAUSER, EVIBLOB, EVICFORM, EVICFSQL,
  EVICFVAR, EVICOPY, EVIFDARC, EVIFDDIR, EVIFDEML, EVIFDFAX, EVIFDPRT,
  EVIFDWEB, EVIFONTS, EVIFPCL, EVIFSTMP, EVILOCK, EVIMAPF, EVIMFAFLD,
  EVIMFFLD, EVIMFOFLD, EVIPCLO, EVIPDTAF, EVIPGRP, EVIPIMG, EVIPLGRD,
  EVIPLINE, EVIPMOD, EVIPRECT, EVIPROC, EVIPTEXT, EVISCTP, EVISPP,
  EVISPPVAR, EVIVSORT)
FILE=EXPORT_FF1_6.dmp
GRANTS=N
```

Next run the Oracle export command as shown in the example below.

```
exp evisions/password@PROD parfile=export_ff1_6.par
```

- Depending on the version of Oracle installed, you may have to type exp73, exp80, etc.
- Replace **password** with the password used to log in as the EVISIONS user.
- Replace **PROD** with the database instance you are backing up.
- Edit the PAR file and change the **FILE** line between exports to avoid overwriting previous dumps.

For your convenience and to help avoid potential typing errors, the above PAR file is available on the Evisions website at

http://evisions.com/downloads/export_ff1_6.par.