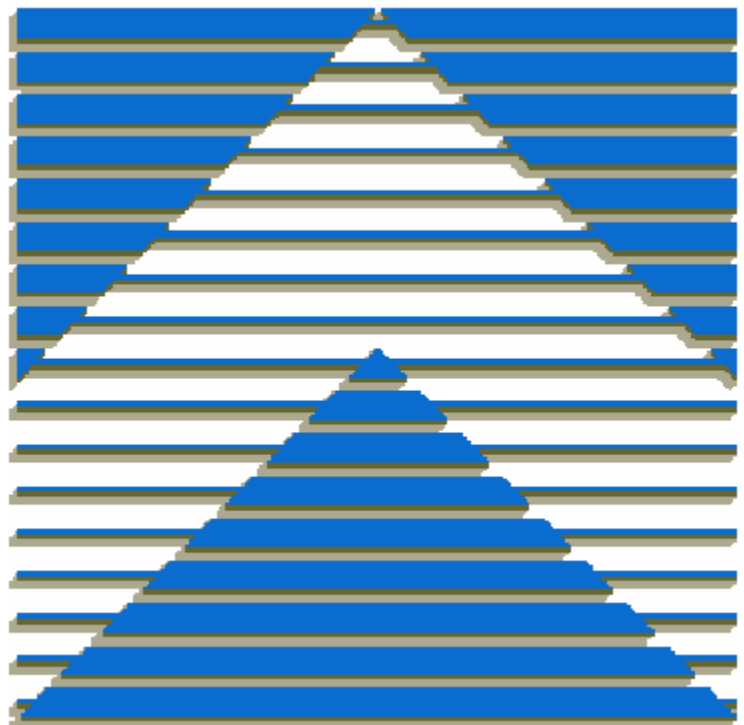


---

Update

# VPM Enterprise 9.1.02

ProMatrix Corporation



# *ProMatrix*

ProMatrix Corporation

Web: [www.promatrix.com](http://www.promatrix.com)

Email: [customerservice@promatrix.com](mailto:customerservice@promatrix.com)

© 2005 ProMatrix Corporation. All rights reserved.

Published 2005.

Printed in the United States of America.

ProMatrix Corporation (“ProMatrix”) has made every effort to ensure the accuracy of this document. ProMatrix makes no warranties with respect to this documentation and disclaims any implied warranties of merchantability and fitness for a particular purpose. The information in this document is subject to change without notice. ProMatrix assumes no responsibility for any errors that may appear in this document. Names and data used in examples herein are fictitious unless otherwise noted.

The information contained herein is the exclusive and confidential property of ProMatrix Corporation and, except as otherwise indicated, shall not be disclosed or reproduced in whole or in part. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of ProMatrix Corporation.

## **Trademarks**

ProMatrix, Visual ProMatrix, VPM, VPM Enterprise, VPM Standard, ProMatrix Multilingual Toolkit, ProMatrix Source Control Kit, ProMatrix Doc Kit and the ProMatrix Corporation logo are trademarks of ProMatrix Corporation.

Microsoft, Visual FoxPro and FoxPro are registered trademarks, and Windows is a trademark of Microsoft Corporation.

All other trademarks acknowledged.

September, 2005

# Contents

<b>Introduction</b>	<b>1</b>
Introduction .....	1
<b>Installation</b>	<b>2</b>
Installing VPM Enterprise 9.1.02 .....	2
VPM Enterprise 9.1.02 Update Installation.....	2
<b>Updating Applications</b>	<b>4</b>
Updating Your VPM Enterprise 9.1 Applications .....	4
New and Modified Files .....	5
<b>Fixes, Changes &amp; Enhancements</b>	<b>7</b>
Fixes, Changes & Enhancements.....	7



# Introduction

---

## Introduction

The VPM Enterprise 9.1.02 Update incorporates important fixes, changes and enhancements to VPM Enterprise 9.1 for Visual FoxPro 9.0.

---

**ProSysPlus Libraries:** With the VPME 9.1.02 update, VPME 9.1 now contains all ProSysPlus Libraries functionality planned for inclusion. In the “Fixes, Changes & Enhancements” table on page 7, enhancements derived from the ProSysPlus Libraries are denoted by a “PSPL” in the Type column.

---

This manual describes:

- How to install the VPM Enterprise 9.1.02. See “Installing VPM Enterprise 9.1.02” on page 2.
- How to update your VPM Enterprise 9.1 and 9.1.01 applications to include the 9.1.02 fixes, changes and enhancements. See “Updating Your VPM Enterprise 9.1 Applications” on page 4.
- The fixes, changes and enhancements included in VPME 9.1.02. See “Fixes, Changes & Enhancements” on page 7.

# Installation

---

## Installing VPM Enterprise 9.1.02

This section shows you how to install VPM Enterprise 9.1.02.

After you install VPM Enterprise 9.1.02, you can update your VPM Enterprise 9.1 and 9.1.01 applications (if any) by following the procedure described in the *Updating Applications* chapter.

---

**Caution:** The VPM Enterprise 9.1.02 installation process will replace the files in your existing VPME 9.1 installation. If you have made changes to any of your existing VPME files, be sure to backup those files so that you can copy and paste your changes into the new versions if you find it is appropriate for you to do so.

---

**Important Note for VPME Source Control Users:** If you are using the VPME Source Control features and have VPME and project files under source control, your source control software's database needs to be updated with the modified versions of the files that the update is changing. To update the source control database use this procedure to install the update:

- Before installing the update, check out the files that are going to be modified by the update installation. The files that are going to be modified by the update are listed in the “New and Modified Files” section on page 5.
- Install the update.
- Check in the updated files.

## VPM Enterprise 9.1.02 Update Installation

Installing the VPM Enterprise 9.1.02 Update is basically a two-step process.

### 1. Install

The first step is to install the VPM Enterprise 9.1.02 files.

- Download the VPME9.1.02.EXE installation file from the ProMatrix Web.
- **Important – Before You Install:** If you previously installed a build of VPME 9.1, you must uninstall that build using the Add or Remove Programs option on your Windows Control Panel. After using Add or Remove Programs to uninstall, manually remove the remaining \vpme91 directory and subdirectories.
  - If for some reason you wish to preserve your existing VPME 9.1 installation, install VPME9.1.02.EXE in a directory other than \vpme91 (assuming that is where you installed your existing VPME 9.1).
- Run VPME9.1.02.EXE to install it to the default \vpme91 directory, or another directory of your choosing.

## **2. Update Your Existing VPME 9.1 Applications**

The second step is to update your existing VPM Enterprise 9.1 applications (if any). See the “Updating Your VPM Enterprise 9.1 Applications” section on page 4.

# Updating Applications

---

## Updating Your VPM Enterprise 9.1 Applications

If you have applications that you've created with VPM Enterprise 9.1 or 9.1.01, you can easily update them to include the fixes and enhancements in version 9.1.02.

---

**Important:** If you have a VPME application created in a VPME version earlier than VPME 9.1, you must update it to VPME 9.1 before updating it to VPME 9.1.02.

---

### To update a VPME 9.1/ 9.1.01 application to VPME 9.1.02

Complete the three steps described below.

#### 1. Create New Classes

Create the following new classes as subclasses of the DEV-level classes of the same name:

- ProCtrls.vcx
  - Container\_
  - Control\_
  - Cursor\_
  - DataEnvironment\_
  - HyperLink\_
  - Label\_Group
  - OptionButton\_
  - Page\_
  - Separator\_
- ProGen.vcx
  - Collection\_
  - Custom\_
  - F2Date\_Month
- ProRpt.vcx
  - ReportListener\_

#### 2. Create New Message

Use the Message Builder to create a new message with the following specifics:

- Type: Form
- ID: The Errors table is nearing the maximum file size.



- Message: The Errors table is nearing the maximum file size. Please contact the system administrator to purge the records.
- Buttons: OK
- Picture: Information

### 3. Fix View

Fix the SVPM\_V!MessageTranslations\_V view, as follows:

- Open the project in VPME.
- In the Data Builder open the SVPM\_V!MessageTranslations\_V view in the View Designer.
- On the Update Criteria page uncheck and then recheck the Send SQL Updates checkbox.
- Close the view, saving the changes when prompted.

---

## New and Modified Files

The following table lists VPME files that have been modified or are new in VPME 9.1.01 and/or 9.1.02.

VPME Files	Location	Version
DEVCTRLS.VCX, VCT	\<VPM Home>	02
DEVGEN.VCX, VCT	\<VPM Home>	02
DEVRIPT.VCX, VCT	\<VPM Home>	02
VPM.APP	\<VPM Home>	01,02
VPMAPP.VCX, VCT	\<VPM Home>	01,02
VPMBLDRS.APP	\<VPM Home>	01,02
VPMCTRLS.VCX, VCT	\<VPM Home>	01,02
VPMDATAHANDLER.VCX, VCT	\<VPM Home>	01,02
VPMDD.VCX, VCT	\<VPM Home>	01,02
VPMFORMS.VCX, VCT	\<VPM Home>	01,02
VPMGEN.VCX, VCT	\<VPM Home>	01,02
VPMINT.VCX, VCT	\<VPM Home>	02
VPMRPT.VCX, VCT	\<VPM Home>	02
VPMSEC.VCX, VCT	\<VPM Home>	02
SAPPUOBF.FXP	\<VPM Home>	01,02
SAPPUPD.EXE	\<VPM Home>	02
SAPPUPD.VCX, VCT	\<VPM Home>	02
SSYSOFBR.SCX, SCT	\<VPM Home>\BUILDERS	01
SAPPDIND.DBF, FPT, CDX	\<VPM Home>\DATA	02
SAPPUMES.DBF, FPT, CDX	\<VPM Home>\DATA	02
PROCTRLS.VCX, VCT	\<VPM Home>\NEW PROJECT	02
PROGEN.VCX, VCT	\<VPM Home>\NEW PROJECT	02
PRORPT.VCX, VCT	\<VPM Home>\NEW PROJECT	02
SSYSFMAN.MNX, MNT	\<VPM Home>\NEW PROJECT	02
SVPM_V.DBC, DCX, DCT	\<VPM Home>\NEW PROJECT	02
SVPMAPPLICATIONDEFINITION.APD, FPT	\<VPM Home>\NEW PROJECT	02
SVPMMESSAGES.DBF, FPT, CDX	\<VPM Home>\NEW PROJECT	02
TEMPLATE_FORM_.SCX, SCT (New)	\<VPM Home>\NEW PROJECT	02
TEMPLATE_FORM_NORECORD.SCX, SCT (New)	\<VPM Home>\NEW PROJECT	02
TEMPLATE_FORM_SINGLERECORD.SCX, SCT	\<VPM Home>\NEW PROJECT	02

VPME Files	Location	Version
(New)		
TEMPLATE_FORM_TOOLBAR.SCX, SCT (New)	\<VPM Home>\NEW PROJECT	02
TEMPLATE_FORM_TOOLBAR_ONETOMANY.SCX, SCT (New)	\<VPM Home>\NEW PROJECT	02
TEMPLATE_FORM_TOOLBAR_RELATEDPAGES.SCX, SCT (New)	\<VPM Home>\NEW PROJECT	02
CONTROLWIDTH.PRG (New)	\<VPM Home>\PRGS	02
FONTSTYLE.PRG (New)	\<VPM Home>\PRGS	02
PROCTRLS.VCX, VCT	\<VPM Home>\VSA	02
PROGEN.VCX, VCT	\<VPM Home>\VSA	02
PRORPT.VCX, VCT	\<VPM Home>\VSA	02
SVSA.PJX, PJT, APP	\<VPM Home>\VSA	01,02
SVPM_V.DBC, DCX, DCT	\<VPM Home>\VSA\DATA	02
SVPMAPPLICATIONDEFINITION.APD, FPT	\<VPM Home>\VSA	02
SVPMMESSAGES.DBF, FPT, CDX	\<VPM Home>\VSA\DATA	02
DVSABEN.SCX, SCT	\<VPM Home>\VSA\FORMS	02
DVSABONF.SCX, SCT	\<VPM Home>\VSA\FORMS	02
DVSADOE.SCX, SCT	\<VPM Home>\VSA\FORMS	02
DVSAEBEN_V.SCX, SCT	\<VPM Home>\VSA\FORMS	02
DVSAECONG_V.SCX, SCT	\<VPM Home>\VSA\FORMS	02
DVSAEEDT.SCX, SCT	\<VPM Home>\VSA\FORMS	02
DVSAEMP1.SCX, SCT	\<VPM Home>\VSA\FORMS	02
DVSAEMP1_V.SCX, SCT	\<VPM Home>\VSA\FORMS	02
DVSAEMP2.SCX, SCT	\<VPM Home>\VSA\FORMS	02
DVSAEOTM.SCX, SCT	\<VPM Home>\VSA\FORMS	02
DVSAEOTM_V.SCX, SCT	\<VPM Home>\VSA\FORMS	02
DVSAERP.SCX, SCT	\<VPM Home>\VSA\FORMS	02
DVSAERP_V.SCX, SCT	\<VPM Home>\VSA\FORMS	02
DVSAESKL.SCX, SCT	\<VPM Home>\VSA\FORMS	02
DVSAINV.SCX, SCT	\<VPM Home>\VSA\FORMS	02

# Fixes, Changes & Enhancements

---

## Fixes, Changes & Enhancements

The following table lists fixes, changes in functionality and new features included in the VPME 9.1.02 update.

### Type Code

- A “B” in the Type column denotes a fix.
- A “C” in the Type column denotes a change in functionality.
- A “E” in the Type column denotes an enhancement.
- A “E PSPL” in the Type column denotes an enhancement derived from the ProSysPlus Libraries.

---

**Tip:** Review this list to see if any of the changes affect the expected functionality of your applications in a way that requires you to take action. Also, determine whether any of the changes offer new functionality that you may want to use.

---

Type	Topic	Description
B	Application Window Close Button	When the List form was brought up and then closed the Close button of the application window was disabled.
B	Auto List Error	An error occurred when the Auto List functionality brought up the Picklist form, a selection was made, and the Picklist form was closed.
B	Candidate Keys	When a candidate key was defined for a cursoradapter in the Data Builder, the definition was not saved properly.
B	Combobox	An error occurred if the Picklist fields list contained the “f2reftable” alias.
B	Combobox Error	An error occurred when a combobox was attempted to be populated using Set Integrity values.
B	Condition Builder	The new Match Case functionality in the Condition Builder was causing conditions based on non-character fields to not be handled properly.
B	CursorAdapters	An error occurred when a cursoradapter cursor was refreshed while a transaction was active. This occurred in the RI routine and when the record-level field validation was performed.
B	Default Data Session Form Error	An error occurred when testing a form in VPM that used the default data session.
B	Empty Grid in One-to-Many Form	On a one-to-many form that used a table for the parent cursor and a view or cursoradapter for the child cursor, no records appeared in the child grid.
B	Error on Message Translations Form	On the Message Translations form, saving a new record or deleting an existing record caused an error.

Type	Topic	Description
B	Message Manager Error	An error could occur when certain checkboxes were clicked on the Message Manager form.
B	New Password Form Error	An error could occur when the New Password form was brought up.
B	New Project Message Builder	An error occurred when the New Project Message Builder option was selected when a project was not open. A project must now be open before that option can be selected. This is necessary because the New Project Message Builder form is instantiated from the <code>Message_Manager</code> class of the open project.
B	New Project Message Builder	An error occurred when the Translations button on the New Project Message Builder form was clicked.
B	On-Form Toolbar	When the New button of an on-form toolbar was clicked, and then immediately the Cancel button was clicked, the new record was not removed. It took three clicks of the Cancel button to remove the new record.
B	Password Setup Menu Option Error	When a new project was created the Password Setup menu option in the new application caused an error when run.
B	Referential Integrity with Views	The RI routine was not properly using views to apply the Update Rule and Delete Rule settings.
B	Reindex Error	An error occurred when attempting to reindex the Errors table while in VPM.
B	Related Pages Builder	The Related Pages form builder was not filling in the caption of headers in grids properly.
B	Reports	The default menu command that was created by the Report Editor form was not correct. The old command was: DO FORM (_SCREEN.oApp.cReportSetupForm) WITH '<report name>,report' The new command is: _SCREEN.oApp.RunReportSetupForm('<report name>,report')
B	Update Builder	When the Update Builder was run to update a table that used an auto incrementing field, the records from the old version of the table were not appended to the new version of the table.
B	User Language Form Error	An error occurred when the User Language form was brought up and an Access Level filter was set.
C	CursorAdapter and View Tags	In the Data Builder, when the New button is clicked for a cursoradapter or view to create a new tag, the Edit page is displayed with the focus on the Tag Name field with the default tag name "NEWTAG" automatically filled in. Now, the "NEWTAG" text is selected so that it is removed as soon as the first key is pressed. Previously, the "NEWTAG" text was not selected, which meant it had to be manually deleted and replaced with the desired tag name.

Type	Topic	Description
E	Combobox	The cValidFilterExpression and aValidFilterVariables entries are now applied to the combobox cursor to filter the list of items that appear in the combobox dropdown. The cValidFilterExpression entry is applied to cursoradapter, table, and view cursors. The aValidFilterVariables entry is applied to cursoradapter and view cursors. If entries are made in both properties, both are applied.
E PSPL	Control Width	The width of combobox, spinner, and textbox controls are now modified at runtime based on the font settings of the controls. Previously, the width of these controls was based on the assumption that the Courier New, 9 point font would be used.
E PSPL	Default Message Record	When a message is attempted to be displayed but the message record is not found in the Messages table, a default message record is now created.
E PSPL	Default Values	When a record is saved the DefaultValues method is now called to place default values into any required fields that are empty.
E PSPL	Enabled Only When New	Controls have a new property, cEnabledOnlyWhenNewExpression, that can be used to determine whether or not controls are enabled when the record bound to the control is new. The expression stored in the property is evaluated when the record bound to the control is new, with the result of the evaluation (.T. or .F.) placed in the Enabled property of the control. <b>Note:</b> See the EnableDisableControls method of the Form_ class for more details.
E PSPL	Enabled When Displayed	Controls have a new property, cEnabledExpression, that can be used to determine whether or not form/toolbar controls are enabled as each record is displayed. The expression stored in the property is evaluated when the record is displayed, with the result of the evaluation (.T. or .F.) placed in the Enabled property of the control. <b>Note:</b> See the EnableDisableToolbarControls method of the Form_ class for more details.
E PSPL	Errors Table File Size Limit	When an error occurs and the file size of the Errors table (SDATAErrors) is nearing the VFP limit of two gigabytes, a message is now displayed with the following text, “The Errors table is nearing the maximum file size. Please contact the system administrator to purge the records.”
E PSPL	Field Changed Determination	There is a new data handler method, FieldChanged, that determines whether or not the value in a field has been changed. The field is specified by passing two parameters, the alias and the field name.
E PSPL	Grid Active Row Highlighting	Grids have a new property, IHighlightRow, that when .T. (the default) causes the active row to be highlighted. <b>Note:</b> See the SetHighlight method of the Grid_ class for more details.

Type	Topic	Description
E PSPL	Grid Ledger Style	Grids have a new property, IGreenBar, that when .T. (the default is .F.) causes the ledger style (alternating green and white rows) to be implemented. <b>Note:</b> See the SetGreenBar method of the Grid_ class for more details. <b>Note:</b> This functionality is implemented through the use of the record number of each record, with even records appearing in green and odd records appearing in white. Because of the use of record numbers this functionality should only be used with cursors that are not ordered by an index tag and where records are not allowed to be added or deleted.
E PSPL	New Checkbox Property	The Checkbox_ class has a new property, ICenterInColumn, that when .T. (the default) and the checkbox is in a grid column, the checkbox will be centered in the column and the Caption will be blanked-out.
E PSPL	New Checkbox Property	The Checkbox_ class has a new property, INoWhenOnReadOnly, that when .T. (the default) causes the When event to return .F. when the control is read-only, bypassing the default When routine.
E PSPL	New Control Properties	When a control is instantiated that retrieves information from either the SDATADDTV table or the SDATADDF table, the records from which the information is retrieved are now saved to new control properties. The SDATDDTV record is saved as an object to the oDDTVRecord property. The SDATADDF record is saved as an object to the oDDFRecord property.
E PSPL	New Form Properties	When a control is instantiated that retrieves information from the SDATADDTV table, the record from which the information is retrieved is now saved to a new form property that is created on the fly. The SDATADDTV record is saved as an object to the oDDTVRecord_<alias> property. <b>Note:</b> When the form is closed a new method is called, ReleaseRecordObjects, that releases the record objects that were created.
E PSPL	New Label Class	There is a new label class, label_group, that can be used to identify a grouping of controls. The label has an opaque BackStyle which allows it to be placed on top of line and shape controls by obscuring the control that is below.

Type	Topic	Description
E PSPL	New SubClasses	<p>New classes have been created as subclasses of VFP base classes. Previously, we did not have subclasses of some of the VFP base classes. The new classes are:</p> <ul style="list-style-type: none"> <li>• Container_ (VPM/Dev/Pro)Ctrls.vcx</li> <li>• Control_ (VPM/Dev/Pro)Ctrls.vcx</li> <li>• Cursor_ (VPM/Dev/Pro)Ctrls.vcx</li> <li>• DataEnvironment_ (VPM/Dev/Pro)Ctrls.vcx</li> <li>• HyperLink_ (VPM/Dev/Pro)Ctrls.vcx</li> <li>• OptionButton_ (VPM/Dev/Pro)Ctrls.vcx</li> <li>• Page_ (VPM/Dev/Pro)Ctrls.vcx</li> <li>• Separator_ (VPM/Dev/Pro)Ctrls.vcx</li> <li>• Collection_ (VPM/Dev/Pro)Gen.vcx</li> <li>• Custom_ (VPM/Dev/Pro)Gen.vcx</li> <li>• ReportListener_ (VPM/Dev/Pro)Rpt.vcx</li> </ul>
E PSPL	Picklist for Date/Datetime Fields	<p>The F2 Picklist functionality has been enhanced to include support for date and datetime fields. Pressing F2 or clicking on the lookup button for a textbox bound to a date or datetime field now brings up a Picklist form that contains a calendar control. The Picklist form class that is instantiated for a textbox is determined by the contents of two new Textbox_ properties, cPicklistForm_Date (default: f2date_month) and cPicklistForm_Date_ClassLibrary (default: progen).</p>
E PSPL	Revert Unsaved Changes	<p>When the application is closed any unsaved changes in the system view cursors open in the session object's private data session are now reverted.</p>
E	Select on Entry	<p>If the SelectOnEntry property of a combobox, editbox, spinner, or textbox is set to .T., clicking on the control now causes the text in the control to be selected.</p>
E	System Record Retrieval	<p>The data handler methods that retrieve records from system tables and create record objects are now able to determine if the record to be retrieved was the last record retrieved, and if so, bypasses the record retrieval. This should shorten the time it takes for a form to come up.  <b>Note:</b> The methods in which this new functionality has been implemented are GetDDD, GetDDF, GetDDTV, GetDDIT, and GetDDFP.</p>

Type	Topic	Description
E PSPL	Template Forms	<p>When a new form is created through the Object Builder and the Copy option is selected on the New Form dialog, by default the forms that are listed for selection are the new template forms in VPM's New Project directory. There is a template form for each form class. For example, the form Template_Form_Toolbar.scx is based on the Form_Toolbar class.</p> <p><b>Note:</b> If you want to make project-specific changes to any of the template forms you can copy the template form to the project's Forms directory and make your changes to the copied form. If you do that the next time you create a form using the Copy option the forms in the project's Forms directory will be listed for selection rather than those in the New Project directory. Of course you can still choose to select one of the template forms in the New Project directory if you wish.</p>