

# Program Directory for ENOVIA® Digital Enterprise Solutions ENOVIA Portfolio ENOVIA<sub>VPM</sub> Version 1 Release 5 for Use with AIX, HP-UX, IRIX, Solaris

Monday, June 16, 2003

Cumulative Fixes PTF16

For a list of all currently supported Products and Releases refer to URL:

<http://techsupport.services.ibm.com/engineering/support>

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## Introduction

This program directory is intended for the system programmer responsible for program installation and maintenance.

It contains information concerning the material and procedures associated with the installation of VPM 1.5.

You should read all of this program directory before installing the program and then keep it for future reference.

## Program Materials

### Basic Machine-Readable Material

The distribution medium for this release is one CDROM per Operating System. The media contain all the programs and data needed for installation. It also includes online documentation.

These distribution media are stacked media. Please keep these media for future use. You will have to use them if you order new products.

See [Installation Instructions](#) for more information about how to install the program.

The table below describes the media.

#### **Basic Material:**

Physical - External Label Identification

CD-ROM - ENOVIA<sub>VPM</sub> Version 1 Release 5 for AIX

CD-ROM - ENOVIA<sub>VPM</sub> Version 1 Release 5 for HP-UX

CD-ROM - ENOVIA<sub>VPM</sub> Version 1 Release 5 for IRIX

CD-ROM - ENOVIA<sub>VPM</sub> Version 1 Release 5 for SOLARIS

### Optional Machine-Readable Material

There are no optional machine-readable materials for ENOVIA<sub>VPM</sub>.

## Program Publications

**Note:** On-line documentation is accessible from within or outside ENOVIA<sub>VPM</sub>. This provides quick access to documentation, without the need for large paper manuals. Two formats are available: Acrobat (PDF) and HTML.

ENOVIA<sub>VPM</sub> online documentation can be accessed either from an interactive session or through direct use of a browser. The software prerequisites are the same as those required for an ENOVIA<sub>VPM</sub> interactive session.

DOCUMENTATION CD	SK21-0292-04
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### Accessing Online Documentation

- Inside VPM: You just have to click on the " Help " Icon in the VPM Access panel.  
The documentation is available if a GA level configuration has been built.
- Outside VPM: the documentation is located in \$CATIA/vpm/doc where you will find the two formats are available: Acrobat (PDF) and HTML.

### Basic Program Publications

The following online documentation provided with the code, in both Acrobat (PDF) and html formats have been updated by this Release:

- *ENOVIA<sub>VPM</sub> User Guide*
- *ENOVIA<sub>VPM</sub> Installation and Administration Guide*
- *ENOVIA<sub>VPM</sub> Generative Technical Publications User Guide*
- *ENOVIA<sub>VPM</sub> PM Interoperability User Guide*
- *ENOVIA<sub>VPM</sub> SAP Interoperability User Guide.*

WARNING! The online documentation is the best so far level, and serves as the only reference for problem reporting.

## Optional Program Publications

There are no optional publications for ENOVIA<sub>VPM</sub>.

## Microfiche Support

There is no microfiche for ENOVIA<sub>VPM</sub>.

## Publications Useful During Installation

- *ENOVIA<sub>VPM</sub> Installation and Administration Guide*
- *CATIA Solutions Installation Guide UNIX Workstation (SH52-1189)*
- *CATIA Solutions Software Administration Guide UNIX Workstation (SH52-0601)*

The reader should also have some knowledge of the basic UNIX file environment and at least one editor.

## Documentation List

The following online documentation provided with the code, in both Acrobat (PDF) and html formats have been updated by this Release:

- *ENOVIA<sub>VPM</sub> User Guide*
- *ENOVIA<sub>VPM</sub> Installation and Administration Guide*
- *ENOVIA<sub>VPM</sub> Generative Technical Publications User Guide*
- *ENOVIA<sub>VPM</sub> PM Interoperability User Guide*
- *ENOVIA<sub>VPM</sub> SAP Interoperability User Guide.*

WARNING! The online documentation is the best so far level, and serves as the only reference for problem reporting.

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## Program Support



Operating System	Compid	VRM	FESN
AIX	5691-01900	1.5.0	0905495
HP-UX	5691-02900	1.5.0	0905496
SGI	5691-03900	1.5.0	0905497
SOLARIS	5691-04900	1.5.0	0905498

The code for ENOVIA<sub>VPM</sub> Version 1 Release 5 will be maintained as follows:

## Problem Reporting

Customers should report defects through their standard support structures who will then open PMRs in RETAIN using the standard procedures (including the relevant ENOVIA<sub>VPM</sub> V1R3 COMPID). These PMRs will be processed by the L1/L2/L3 organizations and APARs will be opened for valid defects.

RETAIN Call Priority is assigned by the support organization raising the call. Priority assigned to a call cannot be higher than the PMR severity.

## APARs

An APAR will be created for valid defects after the IBM General Availability.

## Preventive Service

Preventive Service will be available via Modification Levels distributed by the IBM Program Distribution channel. It is highly recommended to apply the refresh levels released in order to stay current.

## Corrective Service

Fixes for valid **showstoppers** can be provided upon request by PTFs (Program Temporary Fix) available through the standard

IBM/RETAIN and Corrective Service Distribution processes.

A **showstopper** is:

- A problem blocking production: this means that the customer is already using the level on which he requests a PTF in production environment
- a problem preventing migration: in this case, we must know what the migration plan is and check if the switch date is prior to the next refresh availability
- a problem blocking tests on a given level: in this case, maybe a development load can fix the situation and allow the customer to continue the tests
- Installation problem: a problem which prevents the customer from installing or using a CATIA product
- Regression: Quite often, what is seen as a regression by a customer is in fact due to an operation which could either be performed erroneously or create incorrect data with a previous level and has been fixed.

In any case, valid defects are fixed in the refresh level that is current for development in the change team.

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## VPM Prerequisites

There are several levels of prerequisites that are necessary before you install the product.

VPM runs on UNIX workstations. There are four different parameters, the combination of which define the possible configurations:

- supported hardware
- supported operating system levels
- recommended software levels
- supported relational databases.

## Supported Operating System and Database Levels

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Operating System	OS Runtime Levels	DB2 Server/Client	Oracle Server/Client
<b>IBM AIX</b>	AIX 4.3.3	<ul style="list-style-type: none"> <li>from 6.1 FP4</li> <li>7.2 recommended</li> </ul>	<ul style="list-style-type: none"> <li>from 8.0.6</li> <li>VPM Multisite: from 8.1.6</li> </ul>
<b>HP-UX</b>	<ul style="list-style-type: none"> <li>10.20 ACE 4</li> <li>10.20 ACE 5</li> </ul>	<ul style="list-style-type: none"> <li>from 6.1 FP4</li> <li>7 not supported <sub>1</sub></li> </ul>	<ul style="list-style-type: none"> <li>from 8.0.6</li> <li>Oracle 8.i not supported <sub>2</sub></li> <li>VPM Multisite: not supported</li> </ul>
	11.0	<ul style="list-style-type: none"> <li>from 6.1 FP4</li> <li>7 not supported <sub>3</sub></li> </ul>	<ul style="list-style-type: none"> <li>from 8.0.6</li> <li>VPM Multisite: from 8.1.6</li> </ul>
<b>SGI IRIX</b>	from IRIX 6.5.2m	<ul style="list-style-type: none"> <li>Server: N/A</li> <li>Client: from 6.1 FP4</li> </ul>	<ul style="list-style-type: none"> <li>from 8.0.6</li> <li>Oracle 8.i not supported <sub>4</sub></li> <li>VPM Multisite: not supported</li> </ul>
<b>SUN Solaris</b>	<ul style="list-style-type: none"> <li>Solaris 2.6</li> <li>Solaris 7</li> <li>Solaris 8 <sub>5</sub></li> </ul>	<ul style="list-style-type: none"> <li>from 6.1 FP4</li> <li>7.2 recommended</li> </ul>	<ul style="list-style-type: none"> <li>from 8.0.6</li> <li>VPM Multisite: from 8.1.6</li> </ul>

**Key**

1 =DB2 V7 with HP 10.20 is not supported.

2 =Oracle 8i with HP 10.20 is not supported.

3 =DB2V7 with HP 11 is not yet supported by Dassault Systemes (ENOVIA<sub>VPM</sub> technical constraint). Only DB2V6 with HP 11 is supported. However, a DB2V6 client HP11 can access a DB2V7 server (AIX, SUN). To use the DB2V7 server with HP11, it is therefore mandatory to access a DB2V7 server from a DB2V6 client HP 11. This is a temporary restriction. To manage an ENOVIA<sub>VPM</sub> installation with HP 11 and HP 10.20, check the specific procedure.

4 =Oracle 8i is not supported by IRIX for ENOVIA<sub>VPM</sub>.

Solaris 8 is supported by ENOVIA<sub>VPM</sub> with a temporary procedure.

5 = This procedure is explained below, in Solaris 8 Support for VPM / CATIAV4 / CATIAV5.

Also note that:

- ORACLE 8i is a prerequisite for VPM multisite use on any UNIX platform. Multisite is not supported on IRIX.
- Oracle 9i is not yet supported by ENOVIA<sub>VPM</sub> 1.5
- 64 bit is not yet supported by ENOVIA<sub>VPM</sub> 1.5

## VPM on AIX Solutions

### Hardware Requirements

#### Processor Requirements

ENOVIA<sub>VPM</sub> 1.5 may be used on any IBM RS/6000 supported under AIX Version 4.3.3 or 5.1 provided that the following requirements are met.

#### Required Processor Components and Features

- Real Memory  
A minimum of 256MB of real memory are required.
- CD-ROM drive for program installation  
Installation of ENOVIA<sub>VPM</sub> Release 5 for IBM RS/6000 requires an internal or external CD-ROM drive. This drive requires a SCSI High-Performance Input/Output (I/O) Controller, which is either standard or an optional feature (depending on the RS/6000 model). A CD-ROM drive is required to view the on-line documentation in HTML format. Product documentation explains installation on other network-connected RS/6000 machines after the initial installation with the drive.
- Direct Access Storage  
ENOVIA<sub>VPM</sub> Release 5 licensed programs and configurations, user data and user programs may be stored on any internal or external Direct Access Storage Devices (DASD) supported by the RS/6000.
- The following DASD requirements are approximate:
  - All installed products of ENOVIA<sub>VPM</sub> Release 5: 700MB + usage environment.
  - Minimum Paging Space: 256MB.

#### Optional Components and Features

## Configuration Requirements

RS/6000	Required
Graphics device adapter	Required
Color graphics display	Required
Keyboard	Required
3-button mouse	Required
CD-ROM drive	Required*

(\*) For installation only

## Required Processor Components and Features

Graphics Devices (one of the following):

- POWER GXT150, GXT150L, GXT150M and GXT150P (feature number 2767, 2660, 2650 and 2648)
- POWER GXT250P and GXT255P (feature numbers 2851 and 2852) For a better graphic performance level on GXT255P, the use of AIX mode "ONLY8BIT=TRUE" is recommended.
- POWER GXT500 and GXT500D (feature numbers 2644 and 2646)
- POWER GXT500P 12-Bit and GXT550P 24-Bit (feature numbers 2854 and 2855)
- POWER GXT800P 24-Bit and GXT800M 24-Bit (feature number 2853 or 2859 and 2850)
- POWER GXT1000 Model 001 or 002 (machine type 7250-001 or 7250-002)
- POWER GXT2000P
- POWER GXT3000P (feature number 2825)
- POWER GXT4000P
- POWER GXT6000P.

Note: Other adapters are not supported by ENOVIA<sub>VPM</sub> Release 5. Although this product might run with other adapters, incidents encountered which are specific to other adapters will not be accepted for analysis or correction.

## Peripheral Requirements

Required Components and Features:

- Three-button mouse (feature number 6041)

- An alphanumeric keyboard
- Display:  
One display compatible with the graphics devices listed above (for example, an IBM 6091 19-inch color display).

## Software Requirements

AIX Version 4 Release 3.3, or Release 5 Version 1 with:

- C Set ++ for AIX Application Runtime:
  - at minimum level 4.0.2 for AIX 4.3.3 (xIC.rte 5.0.2.4, 5.0.2.5 and 5.0.2.6 are not supported) with IBM C and C++ for AIX compilers and associated corequisites; note that C and C++ for AIX compilers 3.6 (no runtime update) and 5.0.2 (runtime update at level 5.0.2x) are interoperable with the above runtime environments. Install the proper PTF if the runtime level is 5.0.2.4, 5.0.2.5 or 5.0.2.6 .
  - at minimum level 5.0.2 for AIX 5.1 (xIC.rte 5.0.2.4, 5.0.2.5 and 5.0.2.6 are not supported) with IBM C and C++ for AIX compilers and associated corequisites; note that C and C++ for the AIX compiler 5.0.2.x. are interoperable with the above runtime environments. Install the proper PTF if the runtime level is 5.0.2.4, 5.0.2.5 or 5.0.2.6 .
- IBM XL Fortran Runtime Environment (xlfrte):
  - for AIX 4.3.3: xlfrte level 5.1.0, 5.1.1 (5765-C11 or 5801-AAR-7070, Part No. 04L2123, depending on the geographic area), or 7.1.0 (5765-E03) and associated co-requisites
  - for AIX 5.1: xlfrte level 7.1.0 (5765-E03) and associated co-requisites
- Common Desktop Environment (CDE, delivered with the Operating System)
- IBM PEX and PHIGS, Open GL and GL 3.2 (delivered with the Operating System)
- FrameMaker 5.1

Notes:

- Refer to RETAIN (R) for the appropriate PTF to be applied.
- For installation purposes, the following compilers are required:
  - FORTRAN: XL FORTRAN Compiler Version 5.1.0 (5765-C10 or 5801-AAR-7069, Part No. 04L2110 depending on the geographic area), Version 5.1.1, or Version 7.1.0 (5765-E02)
  - C/C++: IBM C and C++ for AIX Compiler Version 3.6.4 or Version 3.6.6. C++ Compiler 3.6 is shipped as the batch compiler with VisualAge C++ Professional for AIX V4 (5765-D52 or part number 30L8178, product 5765-D52 feature 0001, depending on the geographic area)
  - for AIX V5.1: XL FORTRAN Compiler Version 7.1.0 (5765-E02)
  - for AIX V5.1 : C/C++: IBM C and C++ for AIX Compiler Version 5.0.2. Install the proper PTF if the runtime level is 5.0.2.4,

5.0.2.5 or 5.0.2.6 .

With the following PTF requirements when applicable:

- AIX 4.3.3 (includes graPHIGS, OpenGL and GL3.2 for AIX runtime), with:
  - CSet++ for AIX Application Runtime, at level 4.0.2 (delivered with the operating system)
  - IBM C and C++ for AIX Compilers at level 3.6.4 or 3.6.6, when C or C++ compilers are required
  - XL Fortran Runtime Environment (xlfrte), at level 5.1.0 or 5.1.1 (for US: part number 04L2123 or product 5801-AAR feature 7070; please contact your IBM representative for part number identification in other geographical areas), or at level 7.1.0 (5765-E03, with PTF for APAR IY16351), and associated corequisites when XL Fortran development environment is required
  - PTF delivered for APAR IY08270
  - PTF delivered for APAR IY13940 (may be obtained by the RS/6000 Operating Environment for CATIA, V2.3.1 (5765-E52) AIX/CATIA installation tool since it is included in this product)
  - PTF for APAR IY14697
  - PTF for APAR IY16115

**WARNING!** With Release 5, ENOVIA<sub>VPM</sub> no longer supports Release 3.0 or 3.1 of AIX Version 4.

## Supported Relational Databases

- IBM DB/2 Version 6.1 FP4, Version 7.2
- Oracle Server Version 8.0.4, 8.0.5, 8.0.6, 8.1.5, 8.1.6, 8.1.7

Multisite support using Oracle requires use of Oracle 8.1.6.

## VPM on Hewlett-Packard Solutions

### Hardware Requirements

### Processor Requirements

Any HP9000 Series 700 including B-Class, C-Class or J-Class workstations, supported under HP-UX 10.20 A.C.E. 4 (June 99) or 10.20 A.C.E.5 (December 99) or 11 A.C.E. (November 99), provided that the following requirements are met.

Note: Because of binary differences between HP-UX 10.20 and HP-UX 11.0, support of HP-UX 11.0 is limited to a strict runtime

environment. Operations that involve compiling and linking objects should be conducted on HP-UX 10.20 and copied on HP-UX 11.0 systems for execution.

### Required processor components and features

- Real Memory  
A minimum of 256MB of real memory is required.
- An internal or external CD-ROM drive is required for program installation.  
This equipment is required to perform an initial installation. Product documentation explains installation on other network-connected HP workstations after the initial installation with the drive.  
A CD-ROM drive is required to view the on-line documentation in HTML format.
- Disk space  
ENOVI<sub>VPM</sub> Release 5 licensed programs and configurations, user data and user programs may be stored on any internal or external disk by the HP workstation.  
Approximate disk space requirements are as follows:
  - All installed products of ENOVI<sub>VPM</sub> Release 5: 700MB + usage environment.
  - Minimum Swap Space: 256 MB.

### Configuration Requirements

HP Workstation Processor	Required
Graphics card	Required
Color graphics display	Required
Keyboard	Required
3-button mouse	Required
CD-ROM	Required*

(\*) For installation only

### Required processor components and features

Graphics cards

- VISUALIZE 8



- VISUALIZE 24
- VISUALIZE 48
- VISUALIZE 48XP
- VISUALIZE FXE
- VISUALIZE FX2
- VISUALIZE FX4
- VISUALIZE FX5
- VISUALIZE FX6
- VISUALIZE FX10

### Peripheral Requirements

Two types of connectors can be used for a peripheral component:

- HP-HIL connector
- Serial connector.

Required Components and Features:

- Three-button mouse (A2839B or A2838A)
- An alphanumeric keyboard.
- One display compatible with the graphics cards listed above.

### Software Requirements

HP-UX 10.20 ACE 4 (\*), with following required products:

- HP-UX 10.20 A.C.E. 4, (June 99), HP-UX 10.20 A.C.E.5, (December 99) or HP-UX 11.0 A.C.E. (November 99)
- HP-PEX and HP-PHIGS Runtime Environment (delivered with the Operating System)
- Fortran Runtime (delivered and installed with the Core Operating System)
- ANSI C++ (aC++) Runtime Environment at minimum level 1.21 (delivered with the Operating System)
- Common Desktop Environment (CDE)
- X11R6 / Motif1.2\_R6 Runtime Environment
- Powershade (included with HP-UX when the Graphics Adapter is ordered).

CATIA 4D Navigator and CATIA Assembly Modeling also require the OpenGL 3D Graphics Runtime environment(\*\*).

Notes:

- (\*) HP 10.20 ACE is delivered by the bundle B6193DA .
- (\*\*) OpenGL 1.1 is delivered by the bundle B619AA\_APZ
- For installation purposes, the following compilers are required:
  - FORTRAN: HP-UX FORTRAN/9000 (B3907AA)
  - C: HP-UX C/ANSI C (B3899BA)
  - C++: HP-UX ANSI C++, Version 1.21 (aC++, B3911DB)

Note: Because of binary differences between HP-UX 10.20 and HP-UX 11.0, support of HP-UX 11.0 is limited to a strict runtime environment. Operations that involve compiling and linking objects should be conducted on HP-UX 10.20 and copied on HP-UX 11.0 systems for execution.

With the following PTF requirements when applicable:

- HP-UX 10.20 A.C.E. 4 (June 1999), plus following patches
  - PHSS\_15731 HP DCE/9000 1.5 cumulative patch
  - PHSS\_17159 Xserver cumulative patch
  - PHSS\_17160 3D Common Runtime patch
  - PHSS\_17161 PEX5/Starbase/Hardcopy runtime patch
  - PHSS\_17164 PHIGS Runtime Patch
  - PHSS\_17166 OpenGL 1.1 Runtime patch
  - PHSS\_17225 dld.sl(5) cumulative patch
  - PHSS\_17872 HP aC++ Runtime libraries (aCC A.01.21)
  - PHSS\_18012 X/Motif Runtime Apr99 Cumulative
- HP-UX 10.20 A.C.E. 5 (December, 1999), plus following patches
  - Workstation Quality Pack for HP-UX 10.20 (December 1999)
  - PHSS\_19269 Xserver cumulative patch
  - PHSS\_20278 3D Common runtime patch
  - PHSS\_20279 PEX5/Starbase/Hardcopy runtime patch
  - PHSS\_20282 PHIGS Runtime
  - PHSS\_20284 OpenGL runtime patch, when needed
- On HP-UX 10.20 ACE 4 or 10.20 ACE 5, Visualize-FX5 and FX10 graphic adapters require the following patches:

- PHSS\_21453 3D Common runtime patch
- PHSS\_21454 PEX 5.1/Starbase/Hardcopy runtime patch
- PHSS\_21457 PHIGS Runtime patch
- PHSS\_21459 OpenGL 1.1 Runtime patch
- PHSS\_21461 Xserver cumulative patch
- HP-UX 11.ACE (Additional Core Enhancements, November 1999), with:
  - QPK1100 0600: Quality Pack for HP-UX 11.00 (June 2000)
  - PHCO\_22035: sysdef/ioctl patch
  - PHSS\_21462: 3D Common Runtime Patch
  - PHSS\_21463: PEX5.1/Starbase/Hardcopy Runtime Patch
  - PHSS\_21464: DDA Runtime Patch
  - PHSS\_21465: PEX5.1 Runtime Patch
  - PHSS\_21468: PHIGS Runtime Patch
  - PHSS\_21470: OpenGL 1.1 Runtime Patch
  - PHSS\_21472: Xserver Cumulative Patch
  - PHSS\_22320: CDE patch

## Supported Relational Databases

- IBM DB/2 Version 6.1 FP4, Version 7.2
- Oracle Server Version 8.0.4, 8.0.5, 8.0.6 (HP-UX 10.20), 8.1.6, 8.1.7 (HP-UX 11)

Multisite support using Oracle requires use of Oracle 8.1.6.

## VPM on SGI Solutions

### Hardware Requirements

#### Processor Requirements

Any O2, Indigo2, Octane, Octane2, Onyx or Onyx2 workstations based on any R4000, R4400, R4600, R5000, R8000, R10000 and R12000 processor supported under IRIX 6.5, provided that the requirements described below are met.

#### Required Processor Components and Features

- Real Memory  
A minimum of 256MB of real memory is required.
- An internal or external CD-ROM drive is required for program installation.  
This equipment is required to perform an initial installation; product documentation explains installation on other network-connected SGI workstations after the initial installation with the drive.  
A CD-ROM drive is required to view the on-line documentation in HTML format.
- Disk space  
ENOVI<sub>VPM</sub> Release 5 licensed programs and configurations, user data and user programs may be stored on any internal or external disk by the SGI workstation.
- Approximate disk space requirements are as follows:
  - All installed products of ENOVIA<sub>VPM</sub> Release 5 Solutions: 700MB + usage environment.
  - Minimum Swap Space: 256 MB.

### Configuration Requirements

SGI Workstation Processor	Required
Graphics card	Required
Color graphics display	Required
Keyboard	Required
3-button mouse	Required
CD-ROM Drive	Required*

(\*) For installation only

### Required processor components and features

Graphics device adapter (one of the following):

- XZ
- Extreme
- Integrated graphic adapter on O2 workstations
- Solid Impact or SI/SE
- High Impact
- Super Solid Impact or SSI/SSE

- Maximum Impact or MXI/MXE
- VPro V6
- VPro V8
- RE (Reality Engine)
- RE2 (Reality Engine)
- InfiniteReality

## Peripheral Requirements

Required Components and Features:

- SGI three-button mouse
- an alphanumeric keyboard
- one display compatible with the listed graphics cards.

## Software Requirements

- IRIX 6.5.2m
- IRIX Interactive Desktop (delivered with the operating system)

Notes:

- IRIX system software delivers the C++ Runtime and Fortran Runtime required by ENOVIA<sub>VPM</sub> Version 1 Release 5.
- Refer to RETAIN (R) or the ENOVIA<sub>VPM</sub> *Version 1 Release 5 Program Directory* for the appropriate PTF to be applied.
- For installation purposes, the following compilers are required:
  - FORTRAN 77
  - C/C++
  - SGI MIPSpro Compilers Version 7.2.1 (ABI o32 is the only supported ABI)
    - Fortran 77
    - C/C++

With the following PTF requirements when applicable:

- IRIX 6.5.2m plus the following patches
  - C, C++ and Fortran runtime environments, at level 7.2.1, are delivered with the operating system

- patch 3458 rld rollup
- Octane2 with VPro graphics V6 and V8 are supported with IRIX 6.5.8m plus following patch:
  - patch 4010 Octane2 VPro documentation and bug fixes for IRIX 6.5.8m
- Octane2 with VPro graphics V8 and V10 are supported with IRIX 6.5.10m plus following patch:
  - patch 4130 Octane2 VPro bug fixes for 6.5.10m
- Onyx3000 with Infinite Reality 3 are supported with IRIX 6.5.10m plus following patches:
  - patch 4158 Origin3000 fixes for 6.5.10m
  - patch 4135 Onyx3000 - 6.5.10 graphics crash fixes

## Supported Relational Databases

- IBM DB/2 Version 6.1 FP4
- Oracle Server Version 8.0.4, 8.0.5, 8.0.6

Multisite support is not available in the SGI Oracle environment.

## VPM on SUN Microsystems Solutions

### Supported Hardware Requirements

#### Processor Requirements

Any SparcStation 20 Model 71, Ultra1, Ultra2, Ultra10, Ultra30, Ultra60 or SUN Blade 1000 workstation based on UltraSPARC processor, supported under Solaris 2.6.0., Solaris 7 or Solaris 8, provided that requirements described below are met.

#### Required processor components and features

- Real Memory
  - A minimum of 256MB of real memory is required.
- A CD-ROM drive is required for program installation; this drive must be compatible with the following SUN models:
  - For UltraSPARC Creator3D workstations, internal CD ROM (ref X6153A) or external CD ROM (ref X6151A)
  - For Sparc Station 20, internal CD ROM (ref X578A) or external CD ROM (ref X6152A).

Product documentation explains installation on other network-connected SUN machines after the initial installation with CD drive.

A CD-ROM drive is required to view the on-line documentation in HTML format.

- **Disk space:**

ENOVI<sub>A</sub>VPM Release 5 licensed programs and configurations, user data and user programs may be stored on any internal or external disk by the SUN machines.

Approximate disk space requirements are as follows:

- All installed products of ENOVIA<sub>VPM</sub> Version 1 Release 5 solutions: 700MB + usage environment.  
Please refer to the Program Directory to estimate disk space requirements for specific products and configurations.
- Minimum Swap Space: 256MB.

## **Configuration Requirements**

SUN workstation	Required
Graphics card	Required
Color graphics display	Required
Keyboard	Required
3-button mouse	Required
CD-ROM drive	Required*

(\*) For installation only

## **Required processor components and features**

Graphic device adapter (one of the following):

- ZX
- Creator3D
- Creator Series III
- Elite3D for Ultra10 440 Mhz, Ultra60 or SUN Blade 1000 workstations
- Expert3D.

## **Peripheral Requirements**

- SUN three-button mouse
- an alphanumeric keyboard
- one display compatible with the graphics card listed above.

## Compatibility

ENOVIA<sub>VPM</sub> provides a consistent user interface, database and application programming interfaces. Data is compatible among the supported operating systems: AIX, HP-UX, IRIX, and Solaris, and ENOVIA<sub>VPM</sub> is able to use and exchange data in industry-standard formats including STEP AP203, PDM SCHEMA and AP214.

## Performance Considerations

Performance and response time are influenced by several factors including processor and operating system, amount of system memory, channel speeds, the number, type, and organization of terminals, and the size of the data elements being used. ENOVIA<sub>VPM</sub> is designed for optimum benefit under all supported operating systems.

## Software Requirements

- Solaris 2.6.0, Solaris 7 or Solaris 8
- CDE 1.2 (Common Desktop Environment)
- Fortran 4.2 runtime required by ENOVIA<sub>VPM</sub> is delivered with ENOVIA<sub>VPM</sub>
- OpenGL

### Notes:

- For installation purposes, the following compilers are required:
  - SUN Workshop Compilers Version 4.2
    - FORTRAN
    - C/C++
- Refer to RETAIN ® for the appropriate PTF to be applied.

With the following PTF requirements when applicable:

- Solaris 2.6.0, Solaris 7 and Solaris 8 (includes C and C++ runtime environments; Fortran runtime environment is delivered with CATIA), with OpenGL 1.2.1 and following recommended packages and patches.



- Recommended packages
  - SUNWlibC SPARCompilers Bundled libC
  - SUNWglrt OpenGL for Solaris Runtime Libraries
  - SUNWbtool CCS tools bundled with SunOS
  - SUNWxwoft X Window system optional fonts
- Solaris 2.6 Recommended patches
  - 105181-23 Patch Kernel Update
  - 105210-27, 105926-01 and 105720-03 : required patches to share data between SUN and SGI Workstations
  - 105284-36 Runtime Motif 1.2.7
  - 105568-17 Libthread patch
  - 105633-48 Xsun patch
  - 105669-10 CDE 1.2
  - 105591-09 Shared Library patch for C++
  - 106029-01 Solaris 2.6 make
  - 106040-15 X Input & Output Method patch
  - 106125-09 Patch for patchadd and patchrm
  - 106179-01 ja\_JP.PCK locale support (Japanese environment only)
  - 106841-01 euro support
  - 106842-09 euro support
  - 107733-08 Linker patch
  - 108091-03 JDK 1.2 with ISO8859-01 Locales
  - 109543-08 OpenGL 1.2.1
  - Creator 3D graphic adapters:
    - 105360-10 FFB Graphics patches
    - 105361-05 VIS/XIL Graphics patches
  - Elite 3D graphic adapters:
    - 105361-11 VIS/XIL Graphics patches
    - 105363-24 AFB Graphics patches
  - Expert3D graphics adapter:
    - 108788-07 Expert3D driver patch for Solaris 2.6
  - Y2K patches:
    - 105464-02 Multiple xterm fixes
    - 105621-19 libbsm and cron patch
    - 105800-05 /usr/bin/admintool y2000 patch
    - 106193-03 y2000 sysid unzip patch

- 106828-01 /usr/bin/date patch
- Solaris 7 recommended patches:
  - 106327-08 Shared Library patch for C++
  - 106541-11 Kernel update patch
  - 106950-09 Linker patch
  - 106980-11 Libthread patch
  - 107081-20 Runtime Library patch for Solaris 7
  - 107544-03 fsck patch
  - 107607-01 Motif 2.1 patch
  - 107636-03 X Input & Output Method patch
  - 108376-07 Xsun patch
  - 109104-02 sockfs patch
  - 109543-08 OpenGL 1.2.1 patch
  - Creator3D graphic adapters:
    - 106145-09 FFB Graphics Patch
    - 106148-04 XFB Graphics Patch
    - 107351-01 XGL patch
  - Elite3D graphic adapters:
    - 106144-20 Elite3D Graphics Patch
    - 106148-12 XFB Graphics Patch
    - 106147-06 VIS/XIL Graphics patch
  - Expert3D graphics adapter:
    - 108787-07 Expert3D driver patch for Solaris 7
- Solaris 8 recommended patches:
  - 108652-06 Xsun patch
  - 108940-07 Motif 2.1.1 patch
  - 109543-11 OpenGL 1.2.1 patch
  - Expert3D and Expert3D Lite graphics adapters:
    - 108576-13 Expert3D driver patch for Solaris 8

Note: The Elite3D M3 graphic adapter is not supported on Ultra10 except on Ultra10/440 MHz. This last-mentioned configuration requires Solaris 2.6 5/98 as the minimum OS level, with the same recommended patches as listed above, when applicable.

### **Solaris 8 Support for VPM / CATIAV4 / CATIAV5**

**WARNING!** The installation path of the compiler **MUST** be `/opt/SUNWspro`

During `VPMInstall.sh -db2` or `-oracle` the following is done:

The FORTRAN library `libF77.so.4` is copied to `$CAT_CUST/code/steplib/SunOS`:

```
cp /opt/SUNWspro/lib/libF77.so.4 $CAT_CUST/code/steplib/SunOS
cd $CAT_CUST/code/steplib/SunOS
ln -s libF77.so.4 libF77.so.3
```

The VPM environment points to the right FORTRAN library.  
Before running `VPMInstall.sh -nocheck`, type the command:

```
catpath LD_LIBRARY_PATH libF77.so.3
```

This command should return `$CAT_CUST/code/steplib/SunOS`.

## Supported Relational Databases

A relational database is required for the proper operation of ENOVIA<sub>VPM</sub> Release 5. A minimum of 700MB of hard disk space is necessary for system installation. 150 MB should be available for database application and data files. Refer to the section on Software Requirements for supported database products.

- IBM DB/2 Version 6.1 FP4, Version 7.2
- Oracle Server Version 8.0.4, 8.0.5, 8.0.6, 8.1.5, 8.1.6, 8.1.7

Multisite support using Oracle requires use of Oracle 8.1.6.

## User and File System Prerequisites

To perform all the following operations, the system administrator must have root authority.

- A UNIX system administrator must create a file system on which to unload the VPM product (the file system must be dedicated to VPM). This file system must be cataloged on an NFS server or exported. The minimum size of this file system must be **365**

- megabytes (unload and configuration). A minimum of 22 Mega-Bytes is also required for the vpmadm administrator.
- A system administrator **must install a CD ROM device**, export the mount point of the CDRMPATH and verify that the /cdrom directory is mounted
  - If you want to install Technical-Publishing (TechPub), a UNIX system administrator must create a file system dedicated to TechPub. This file must be mounted on all client machines which will use TechPub. The system administrator must also create a directory having read+write+execute privileges for himself and all users. The path to this directory is the unique parameter required for the TechPub installation.

## Licensing Prerequisites

You must set the VPM License to perform VPM Installation.

There are two licensing modes:

- *named* licensing (**previous to 1.4**)
- *concurrent* licensing (**starting with 1.4**)

## Named Licensing

This is a role-based license mechanism. When you start ENOVIA<sub>VPM</sub>, an Infrastructure Product license is taken until you identify yourself and choose a role (through the VPM login panel). As soon as this is done, the system will take as many licenses as attached to the roles. As an example, if you get a role based on Engineer Solution, and one based on Generative Technical Publication Solution, the system will require three licenses: VPM, VTP, VP0. The sequence will be: a VPM Infrastructure Product license taken when launching VPM; VPx, VPy taken after identification of the roles.

### CodeName

VP0 ENOVIA<sub>VPM</sub> Engineer Product  
VP1 ENOVIA<sub>VPM</sub> Manager Product  
VP2 ENOVIA<sub>VPM</sub> Casual User Product  
VP3 ENOVIA<sub>VPM</sub> Administration Product  
VP4 ENOVIA<sub>VPM</sub> PDM Integration  
VP5 ENOVIA<sub>VPM</sub> Product Engineer Solution  
VP6 ENOVIA<sub>VPM</sub> SAP Interoperability Solution  
CDE ENOVIA<sub>VPM</sub> CDM Engineer Solution  
VTP ENOVIA<sub>VPM</sub> Generative Technical Publications Product

**Important**

As of VPM 1.4, all **new** users must use "concurrent" licensing described below. Users of VPM versions prior to 1.4, i.e. those who used "named" licensing prior to VPM 1.4 will continue to be supported.

**Concurrent Licensing**

This is a role-based license mechanism and is the only licensing available for all new users as of VPM 1.4.

You **must** first do the following export in post-installation:

```
export CATVpmLicenceType=CONCURRENT
```

When you start ENOVIA<sub>VPM</sub>, an Infrastructure Product license is taken until you identify yourself and choose a role (through the VPM login panel). As soon as this is done, the system will take only those licenses attached to the selected role.

**CodeName**

CDX ENOVIA<sub>VPM</sub> CDM Engineer Configuration  
DEX ENOVIA<sub>VPM</sub> Engineer Configuration  
MSX ENOVIA<sub>VPM</sub> Manager Configuration  
REX ENOVIA<sub>VPM</sub> Casual User Configuration  
ADX ENOVIA<sub>VPM</sub> Administrator Configuration  
VPX ENOVIA<sub>VPM</sub> Product Engineer Configuration  
VSX ENOVIA<sub>VPM</sub> SAP Interoperability Configuration

**For VPM and CATIA V5 only:**

- Licenses such as COM, CDR, etc. are **not** required.
- The declaration parameter `catcdma.VPM.CATIA_MODELS.MNGT` must be set to INTERNAL.

**For VPM and CATIA V4 (with CATIA V5 or not):**

- Licenses such as COM, CDR and CDA **are** required.
- The declaration parameter `catcdma.VPM.CATIA_MODELS.MNGT` must be set to BATCH.  
Remember that parts cannot be created in BATCH mode without CATIA V4 and the appropriate licenses.

For more information about licensing, see the Planning & Administration Guide for CATIA V4 products.

## Database Prerequisites

For all database vendors: You have to provide for 150 megabytes for the VPM tablespace datafiles.

### Prerequisites for Oracle Databases

Before launching the VPM installation process on Oracle the following operations must be performed:

1. **The database administrator must have access to the Net8, SQLPLUS and Pro\*C products.** The VPM installation will use this product during processing.
2. Verify that the library named "**libclntsh**" is created (if it does not exist, you must build it). This library can be invoked from a VPM process, so it must be known in the current environment.
3. Verify that the **database** and the **listener** are started.

For more information about Oracle administration, see the *Oracle8 Server Administrator's Guide*.

### Prerequisites for a DB2 Database (Universal Database)

The administrator must be sure that the **DB2 SDK product** or **ADT (Application Development Tool)** is installed because it is used at VPM installation time.

1. Create the file system XXX in which the VPM database will be created.
2. Under the Unix DB2 manager account, type the **db2** command to obtain the prompt db2>.
3. Create VPM database as follows:
  - o "create database VPM on XXX\_filesystem"
4. Verify that the VPM database is cataloged as follows:
  - o "**list database directory**". A list appears with all cataloged databases.
5. Verify the connect as follows:
  - o "**connect to VPM**". The database will be connected if the creation has terminated successfully in the above step.
6. Verify that the library "**libdb2**" is created. This library can be invoked from a VPM process so it must be known on the current environment.

For more information about DB2 administration, see the *IBM Universal Database Administration Guide for Common Servers, Version 5*.

## VPM Authentication Modes

Authentication is the operation of verifying whether a user is indeed the person he or she claims to be, based on their user name and password. Every time users try to connect to a local or remote database, they are authenticated.

VPM allows two authentication modes:

- **Client Authentication:** This relies on the UNIX Operating System authentication mechanism.
- **Server Authentication:** The user identifies him or herself by means of a VPM userid/password window.

If you use a DB2 database, your users must be defined as UNIX users.

### Database Customization Related to a VPM Authentication Mode

You may have to customize the database configuration in order to enable each authentication mode.

#### Customization for the ORACLE Database

##### Client Authentication

You must customize the `initXXX.ora` file (where XXX is the ORACLE\_SID value).

To do this, the Database Administrator should do the following as the ORACLE user:

In the file **initXXX.ora** associated with the ORACLE instance dedicated to VPM, where XXX is the name of your ORACLE instance, add the following parameters:

```
os_authent_prefix = "" (Make sure there is no space between the quotes.)
remote_os_authent = TRUE
```

If your database is already started stop the database as follows:

1. Verify that the environment variables **ORACLE\_SID** and **ORACLE\_HOME** are correctly defined.

2. Verify that you use the UNIX account which has the system privilege on the database.
3. Go to the **Oracle Home** directory.
4. Type **svrmgrl** and press *Enter*.
5. When the prompt appears, type > **connect internal**
6. When the prompt appears, type > **shutdown**

Start the database as follows:

1. Verify that the environment variables **ORACLE\_SID** and **ORACLE\_HOME** are correctly defined.
2. Go to the **Oracle Home** directory.
3. Type **svrmgrl** and press *Enter*.
4. When the prompt appears, type > **connect internal**
5. Type > **startup**

Verify the completeness of the modification as follows:

1. Create a UNIX user called **myuser** (for example).
2. As administrator (system/manager), activate SQLPLUS.
3. Identify the UNIX user **myuser** as an ORACLE user through SQLPLUS:

```
SQL > create user myuser identified externally;  
SQL > grant connect to myuser
```

4. Exit from SQLPLUS.



5. Connect using the UNIX account **myuser** created above.
6. Type `sqlplus /` to obtain the prompt `SQL>`.

### Server Authentication

During VPM installation, all required users will be created in the ORACLE database.

### Customization for DB2 Database:

Nothing has to be done to enable Client or Server VPM Authentication Mode, but you can specify if the database authenticates the user on the DB2 database server or on the DB2 client. In order to do that the following DB2 commands can help you:

GET DATABASE MANAGER CONFIGURATION: show all DB2 instance parameters

UPDATE DATABASE MANAGER CONFIGURATION USING AUTHENTICATION {CLIENT | SERVER}: change the DB2 authentication mode (authentication on the client or on the server)

For more information about DB2 administration, see the *IBM Database 2 Administration Guide for Common Servers, Version 2*.

## Switching VPM from Server Authentication to Client Authentication

### DB2

- On **DB2**
  1. Perform a db2 connect to the [database\_name] .
  2. Launch the following command:  
`update dbm cfg using AUTHENTICATION CLIENT`
  3. To check the update, do as follows:  
`get dbm cfg`
- On **VPM**
  1. Initialize your VPM environment as follows:  
`cd env`

- . VPMWsUser.sh
2. Launch CATDBENV as follows:  
CATDBENV
3. Double-click on each domain (VPMADMIN, VPMPEOPLE, etc.)
4. Change the *Server* button to *System*.
5. Use the *Save work* icon to save your settings.
6. Set the declaration parameter CATCDM.DBCONNECTION\_PROMPT to NO.

## ORACLE

- On **ORACLE**
  1. Each user has to be changed from server to client. Connect as dba (system/manager) in sqlplus on your ORACLE instance.
  2. Change the user [user] identified externally:  
SQL> alter [name\_of\_externally\_identified\_user];
- On **VPM**
  1. Initialize your VPM environment as follows:  
cd env  
. VPMWsUser.sh
  2. Launch CATDBENV as follows:  
CATDBENV
  3. Double-click on each domain (VPMADMIN, VPMPEOPLE, etc.)
  4. Change the *Server* button to *System*.
  5. Use the *Save work* icon to save your settings.
  6. Set the declaration parameter CATCDM.DBCONNECTION\_PROMPT to NO.

## Switching VPM from Client Authentication to Server Authentication

### DB2

- On **DB2**

1. Perform a db2 connect to the [database\_name] .
2. Update dbm cfg using server authentication.
3. To check the update, do as follows:  
`get dbm cfg`

- On **UNIX**

1. Check that each VPM user/password exists from a UNIX point of view. This entails checking in `/etc/passwd` for each user. If a user does not exist, add it in `/etc/passwd`.
2. Check to make sure that the password corresponds to the VPM password. If it does not, change it using the following command:

```
passwd user (with root id)
```

- On **VPM**

1. Initialize your VPM environment as follows:  
`cd env`  
`. VPMWsUser.sh`
2. Launch CATDBENV as follows:  
`CATDBENV`
3. Double-click on each domain (VPMADMIN, VPMPEOPLE, etc.)
4. Change the *System* button to *Server*.
5. Use the *Save work* icon to save your settings.
6. Set the declaration parameter `CATCDM.DBCONNECTION_PROMPT` to YES. If it does not exist, add it to `$CAT_CUST/site/dec/CATCDM.dcls` .

## ORACLE

- On **ORACLE**

1. Each user has to be changed from client to server. Connect as dba (system/manager) in sqlplus on your ORACLE instance.

2. Change the user [user\_name] identified externally:

```
SQL> alter [name_of_user_identified_by_password];
```

- On **VPM**

1. Initialize your VPM environment as follows:

```
cd env
```

```
. VPMWsUser.sh
```

2. Launch CATDBENV as follows:

```
CATDBENV
```

3. Double-click on each domain (VPMADMIN, VPMPEOPLE, etc.)

4. Change the *System* button to *Server*.

5. Use the *Save work* icon to save your settings.

6. Set the declaration parameter CATCDM.DBCONNECTION\_PROMPT to YES.

If it does not exist, add it to \$CAT\_CUST/site/dec/CATCDM.dcls .

# Installation Instructions

## Installation Overview

The following is a summary of the different stages of a VPM installation.

### Phase 0: Prerequisites

1. Logon to the central server and verify all VPM prerequisites with root authority.
2. Install a CD ROM reader and export its mount point directory, hereafter referred to as CDROMPath.
3. Create the specific file system in which VPM will be unloaded, independent from the CATIA V4 and ENOVIA<sub>VPM</sub> installations possibly available on your site.
4. Verify that your database is started.
5. Verify that all database environment variables are valuated and exported.

### Phase 1: Software Initialization

As the phase 1 of the installation uses a CATIA utility called `catinst`, the entire phase is based on procedures which are inherited from CATIA V4 products. In the following steps, the references to CATIA or `catinst` refer to these inherited procedures.

6. Logon as the user `root` and launch `CDROMpath/START`.  
This starts the installation. You are prompted to answer a number of questions until the following panel is displayed.  
Perform the `catinst` installation, generating successively: RIF, configuration, administrator.
7. Verify that you have set the VPM license keys (The second phase of the VPM Installation process needs VPM license keys to perform successfully).  
For the detailed procedure, see the *ENOVIA<sub>VPM</sub> Installation & Administration Guide*.  
For further information, see `nodelocked` licensing or `concurrent access` licensing in the CATIA.V4 Installation Guide for UNIX workstations. There you will find helpful information regarding software maintenance and advanced installation capabilities.

## Phase 2: Installation of Data Structures in the Database

The database must be created prior to this phase.

For this second phase, you must be logged onto the server machine (the machine on which the Database has been created) with the Administrator authorization.

8. In order to create data structures in the database see [VPMInstall.sh Utilities](#) below.
9. In order to check the installation, launch the VPM Application and log on as VPM Data Administrator.

The only user known by the VPM Application security mechanism at this point is the VPM Data Administrator.

For the detailed procedure, see the *ENOVIA<sub>VPM</sub> Installation & Administration Guide*.

### VPMInstall.sh Utilities

You can test your environment (connection with database) before actually installing the data structure using `VPMInstall.sh -oracle` or `VPMInstall.sh -db2`. During this test phase, we suggest you confirm the parameter addition in `YOUR.env`. You have to log off then log on for these parameters to be taken into account.

Note that the *Create connection modules* option can only be used if you **already** have a VPM database.

If you already have connection modules (JD060SGB/JD061SGB/OB071USX for Oracle OR JD060DB2/JD061DB2/OB071USX) installed in the STEPLIB path you may install VPM with these modules without building new ones. The UNIX variable NO\_CONNECTION\_MODULES must be set (to anything) in order to avoid connection module generation during installation.

Then launch VPMInstall.sh -nocheck in order to create the contents of the VPM database.

Oracle 8.0.4 and 8.0.6: You normally do not have to rebuild the library *libORAGLUE.a* or *.so*.

Oracle 8.0.5: This library must be rebuilt. See the [appropriate error below](#).

**WARNING!** If you launch VPMInstall.sh more than once make sure you erase the directory tmp/tmpVPMInst if it still exists.

**WARNING!** When running `VPMInstall.sh -oracle`, the UNIX variable `TNS_ADMIN` is set to the `$CAT_ENV` file. This is necessary for this particular installation step. When VPM is installed by means of `VPMInstall.sh -nocheck`, `TNS_ADMIN` is set to `$CAT_CUST/code/bin/VPMDBEnv.sh` (just like `DB2INSTANCE` for DB2 installation). The VPM administrator will have to remember that if `TNS_ADMIN` needs to be modified, it **MUST** be done in `VPMDBEnv.sh`.

This modification has been made for VPM/CATIA V5 interoperability purposes.

### Specific for Solaris 8

See [Solaris 8 Support for VPM / CATIAV4 /CATIAV5](#).

### Specific for HP-UX 11

The creation of the connection modules must be performed under HP-UX 10.20 to ensure compatibility with the rest of the VPM binaries. See [Installation Instructions](#) to get the complete procedure on HP-UX 11.00.

### Supported Relational Databases

- IBM DB/2 Version 6.1 FP3, Version 7.2
- Oracle Server Version 8.0.4, 8.0.5, 8.0.6, 8.1.5, 8.1.6, 8.1.7

### Installation Instructions

On HP-UX the following configurations are supported:

- DB server on HP-UX 10.20 - VPM client on HP-UX 10.20 or HP-UX 11.00
- DB server on HP-UX 11.00 - VPM client on HP-UX 10.20 or HP-UX 11.00

Perform the normal procedure if you are installing VPM on HP-UX 10.20 i.e. VPMInstall.sh -oracle or -db2 to start the checker and VPMInstall.sh -nocheck to complete the installation.

If you decide to install VPM on a HP-UX 11.00 system, please follow the steps indicated below:

### Step 1. Creation of the connection modules

This has to be done on a HP-UX 10.20 system to ensure compatibility with the rest of the application. Use the 'file' or 'chatr' command to get the level of the library. Usage: chatr <executable>

The output of a module built on HP-UX 10.20 is as follows:

```
<executable name> :  
shared library dynamic path search:  
SHLIB_PATH enabled first  
embedded path disabled second Not Defined  
shared library list:  
dynamic /usr/lib/libc.1
```

The output of a module built on HP-UX 11.00 is as follows:

```
<executable name> :  
shared library dynamic path search:  
SHLIB_PATH disabled second  
embedded path disabled first Not Defined  
shared library list:  
dynamic /usr/lib/libc.2
```

1. Before starting the process, make sure that you can access the database (ORACLE or DB2). The database can be located on a remote server. However, the RDBMS binaries must be installed on the 10.20 system.
2. Start the VPM installation procedure using the -oracle or -db2 option to access the installation "checker". This allows you to create the connection modules (2), the user exit (1) and the libORAGLUE.sl library (8.1.x) if ORACLE is used or binding process if DB2 is

used.

3. Once created, copy the files ( with the -p option for DB2) to the HP-UX 11.00 system. (The default directory is <VPM Admin directory>/code/steplib/HP-UX).
4. Make sure that the access rights on the libraries are set to r-x for all (chmod 555).
5. Run the chatr command on the connection modules to get all the dependencies. One of these is libclntsh.sl (for ORACLE) and libdb2.sl (for DB2). In other words, you have to copy these libraries from the 10.20 system to a directory located on the HP11.00 system. The second phase of the installation will integrate this directory into the SHLIB\_PATH definition.

Note that during the execution of VPM, if the HP-UX 11.00 library is accessed first, the system will return a message saying that the executable cannot be loaded.

### **Step 2. Initialization of the Database on the HP-UX 11.00 System**

1. Before executing the VPMInstall.sh procedure on the HP-UX 11.00 system make sure that the database can be accessed and check the connection modules and dependencies (libclntsh.sl or libdb2.sl) availability (chatr and catpath commands).
2. Execute VPMInstall.sh -oracle or -db2 to initialize your environment. If you try to generate the connection modules, the procedure will return an error message saying this option cannot be run on HP 11.00. You may set the UNIX variable NO\_CONNECTION\_MODULES to avoid connection module generation.
3. Specify the location of the 10.20 libraries (ORACLE or DB2) that you copied in step 1.
4. Execute VPMInstall.sh -nocheck to start the GUI used to create the objects into the database.

### **Step 3. Generation of the PSN library (libLV0XCDMA.sl)**

This step consists in the creation of the shared library called by the PSN application. This must be performed under HP-UX 10.20.

Use the catpsninst.sh procedure to do so or the VPMInstall.sh checker.

Note that this process applies to all the libraries (user exits) that can be used to customize VPM. If you decide to run a HP-UX 11.00 configuration to support VPM, you have to keep a HP-UX 10.20 system to compile and build your customization.

### **In the event of a communication problem**

If, when VPMStart.sh is run, the following message appears:  
CATDbConnection Table not Found in database error 3106  
you must valuate the variable *ORA\_NLS33*.



If, when the connection test is carried out (on AIX and SunOS: \$CAT\_CUST/code/bin/contest pour AIX et SunOS), the following message appears:

```
OPEN:sqlca.sqlcode=-3113
```

you must valuate the variable *ORA\_NLS33*.

### Phase 3: Implementation of VPM Interoperability

For this third phase, you must be logged on as the administrator in order to customize the environment (Interoperability with CATIA V4 Versioning and Revisioning...)

For the detailed procedure, see the *ENOVIA<sub>VPM</sub> Installation & Administration Guide*.

ENOVIA<sub>VPM</sub> Version 1 Release 5 is able to communicate with:

- CATIA V4 (from 422R1 at least; 424R1 is recommended)  
A CATIA V4 PTF might be necessary to improve CATIA V4 behavior toward ENOVIA<sub>VPM</sub>. Check this point with your PTF provider.
- CATIA V5 (from V5R6 at least; V5R7 SP5 or higher is recommended)  
V5R7 SP4 is recommended, especially for Relational Design scenarios (storage of V5 technological links in VPM) and for significant performance improvements on the scenario involving the launching of the VPM Product Structure (PSN) in V5.
- ENOVIA DMU (from V5R6 at least; V5R7 SP5 or higher is recommended)  
V5R7 SP5 is recommended, especially for performance improvements on the scenario involving the launching of the VPM Product Structure in V5.
- ENOVIA Portal 3DCOM (from V5R6 at least, V5R7 SP5 or higher is recommended)  
V5R7 SP5 is recommended, especially for VPM NT (via 3d com) versus V5 NT interoperability scenarios.
- ENOVIA Product Manager (from 3.2. B2 at least)
- DELMIA Products (Igrep 5.11 at least)
- DELMIA DPM (from V5R6 at least)
- DELMIA PPR Hub (from V5R7 SP4 at least).

Contact your provider to get more information about specific maintenance required for these products.

## ENOVIA<sub>VPM</sub> Maintenance Levels, PTFs

A new VPM PTF is cumulative. In other words, it contains many different corrections. Potentially, it includes corrections to:

- code (libraries, load modules)
- shells
- declaration parameters
- APIs

A PTF migration therefore needs to be exhaustive to ensure optimum VPM behavior.

### **Installing a PTF n+1 on top of a PTF n (or on top of GA code)**

A few steps are necessary to manage correctly the transition between PTF n and ptfn+1:

A - Installing the PTF using *catinst* (CATIA V4-like procedure)

B - Updating the administrator environment with new PTF content

C - Checking potential data structure migration

#### **A - Installing the PTF Using *catinst***

For more information on this step you can follow the scenario described in the *CATIA Installation Reference Guide (CATIA V4)*. ENOVIA<sub>VPM</sub> inherits CATIA installation tools which is why there are still some references to CATIA in this tool. The PTF installation procedure is more or less the same for ENOVIA<sub>VPM</sub> as for CATIA V4.

For information:

\$CAT\_UNLOAD refers to the official unload environment.

\$CATIA refers to the official configuration environment.

\$CAT\_CUST refers to the administration environment.

1. Launch with root id:

\$CAT\_UNLOAD/code/bin/catinst

where CAT\_UNLOAD is set with the appropriate VPM unload directory.

## 2. Unload the software

### -> **Unload all the PTF's UB:**

- In the first field, provide the path.
- In the second field, click on the combo box.  
A new window appears with the list of PTFs.
- Click on *Select All* then *OK*.

## 3. Configure the installation

### -> **Configure Step by Step:**

- a - Build the RIF (choose a new rif)  
Example: rif\_ptf4
- b - Create the runtime environment:  
Change the name of the configuration directory  
Example: cfg\_ptf4  
Enter the rif previously created in b/ (rif\_ptf4)
- c - Create/update the administrator environment:  
Update the existing administrator

Warning! This step will add some new or updated contents in the following directories:

- \$CAT\_CUST/adm/cdmbatch
- \$CAT\_CUST/code/src
- \$CAT\_CUST/code/bin
- \$CAT\_CUST/env
- \$CAT\_CUST/dec

Check in each of these directories to see what has been added with the update of the administrator for PTFn+1 versus the PTFn.

All the objects added in the step "Create/update the administrator environment" above are created with a date extension (example: .update\_xx:yy:zz). If you want them to be active, you have to rename them.

### **How to proceed**

Example: When updating vpm admin from VPM1.5 GA to VPM1.5 PTF3, note the following:

- Some new objects are added to \$CAT\_CUST/code/src:
  - orchmod.c

- OB071USX
- Some objects are duplicated in \$CAT\_CUST/code/src
  - dbsysi.c.update\_xx:yy:zz
  - DBEXP6.f .updatex\_xx:yy:zz

So the procedure for these objects is:

```
cd $CAT_CUST/code/src
cp dbsysi.c dbsysi.c.save
cp dbsysi.c.update_xx:yy:zz dbsysi.c
and the same for the others
```

- Some objects have been duplicated in \$CAT\_CUST/env:  
YOUR.env

So the procedure for YOUR.env is:

```
cp YOUR.env YOUR.env.ptfn
cp YOUR.xx:yy:zz.env YOUR.env
```

Warning! This operation will result in the loss of your old YOUR.env customized with the DB2 and ORACLE parameters. To recover them, follow the step "Updating YOUR.env for activating DB2/ORACLE parameters in the new YOUR.env" below.

- Some new objects have been duplicated in \$CAT\_CUST/dec:

```
CATCDM.dcls .save_xx:yy:zz
CATCDMA.dcls .save_xx:yy:zz
CATLIC.dcls.update_xx:yy:zz
```

So the procedure for these declaration parameters is:

```
cd $CAT_CUST/dec
diff CATCDMA.dcls.save_xx:yy:zz CATCDMA.dcls
diff CATCDM.dcls.save_xx:yy:zz CATCDM.dcls
diff CATLIC.dcls.save_xx:yy:zz CATLIC.dcls
```

There are two ways to proceed:

- Add the new declaration rows (delivered in the PTFn+1) to the old declaration parameters (CATCDM.dcls, CATCDMA.dcls, etc.) (recommended)
- or
- Add the old declaration rows (company-customized rows) to the new declaration (CATCDMA.dcls.save\_xx:yy:zz, CATCDM.dcls.save\_xx:yy:zz, etc.)

**Example:**

```
mv CATCDMA.dcls CATCDMA.dcls.ptfn
mv CATCDM.dcls CATCDM.dcls.ptfn
cp CATCDMA.dcls.save_xx:yy:zz CATCDMA.dcls
cp CATCDM.dcls.save_xx:yy:zz CATCDM.dcls
```

- o d - Update YOUR.env to activate the DB2/ORACLE parameters in the new YOUR.env.

**Launch:**

```
$CATIA/vpm/code/command/VPMInstall.sh -db2 for DB2
```

or

```
$CATIA/vpm/code/command/VPMInstall.sh -oracle for ORACLE
```

This shell option will allow you to update YOUR.env (already upgraded in step 3 c "Create/update administrator environment" above) by adding DB2 or ORACLE parameters in YOUR.env file.

**B - Updating the Administrator Environment with New PTF Content**

The first VPM installation (using VPMInstall.sh -nocheck) creates certain data (shells, etc.). Some of this data, created by the original VPM installation (from scratch) should have changed between the original VPM complete installation date and the PTF date. This step exists to refresh certain VPM data (shells, etc.).

**Example:**

When launching the first VPM installation (using VPMInstall.sh -nocheck), all the shells existing in \$CATIA/vpm/code/command are copied to \$CAT\_CUST/code/bin.

Of course, you must not execute VPMInstall.sh -nocheck for each PTF ( this operation should be done one time for data structure creation). It means that all the shells in \$CAT\_CUST/code/bin should not be up to date toward the ptfn+1

It is the reason why you have to check that all the shells created in \$CAT\_CUST/code/bin are still correct toward with PTFn+1.

**How to proceed**

1. Save your previous ptfx settings

```
cd $CAT_CUST/code/bin
mkdir save_ptfn
cp * save_ptfn/.
```

Example : CustoVpmToCatia.sh  
VPMDBEnv.sh  
should be saved because they have been already customized.

2. Run the shell CpInstFiles.sh:

```
cd $CATIA/vpm/code/command  
CpInstFiles.sh $CATIA $CAT_CUST UPDATE
```

Warning! This shell will upgrade all the VPM administrator environments by copying all contents needed for the VPM installation PTF upgrade. This is why you were asked to backup some of your data before (in step 1).

Note that this shell takes into account the following files:

- o \$CAT\_CUST/code/bin  
The administrator shell scripts unloaded from the new PTF (PTFn+1) are located, after the PTF installation, under \$CATIA/vpm/code/command  
The administrator shell scripts will now be copied to \$CAT\_CUST/code/bin
- o \$CAT\_CUST/ORA\_MULTISITE or \$CAT\_CUST/DB2/MULTISITE
- o \$CAT\_SITE/multisite

3. Retrieve your previous settings:

```
cd $CAT_CUST/code/bin  
cp save_ptfn/ VPMDBEnv.sh .
```

```
cp save_ptfn/ CustoVpmToCatia.sh .
```

or

launch (recommended procedure)

```
VPMPostInstall.sh
```

(option 1: CATIA V4 interoperability Customization)

This shell will create a new shell CustoVpmToCatia.sh in \$CAT\_CUST/code/bin

```
cp save_ptfn/CustoVpmToV5.sh .
or
launch (recommended procedure):
VPMPostInstall.sh
(option 2: CATIA V5 Interoperability Customization)
This shell will create a new shell called CustovpmToV5.sh in $CAT_CUST/code/bin
```

## C - Checking Potential Data Structure Migration

(Refer also to [VPM MIGRATION](#).)

Some PTFs may require minor data structure migrations. This is why you are asked to launch this shell in such a case. This shell has several options. Just follow the help.

```
cd $CAT_CUST/code/bin
./VPMPostInstall.sh
```

- option 4 for checking parameters  
Follow the menu
- option 5 for managing Database Structure Migration

Option 1 or 2 for getting information about scripts which will be launched depending on each VPM level and PTF  
Option 4 or 5 for preparing scripts/command streams depending on the customization  
These options will create the correct scripts for migration to a shell.  
For these options, the following declaration parameter is needed:

```
catcdm.c_stream = '$CAT_CUST/MIGRATION' ;
in $CATMSTR
```

You will be asked to answer certain questions in order to customize your files. Two shells will be created in \$CAT\_CUST/MIGRATION

- Run\_dbcdmb.sh
- Run\_sql\_script\_files.sh

Depending on the migration you need to apply, remove or comment the lines you do not need.

## VPM MIGRATION

This part of the Program Directory contains the following sections:

[Migration of Old Databases](#)

[Migrating from a Previous Level](#)

[Oracle and DB2 Replication Tools](#)

[Generic Process: Example from VPM 1.2 to 1.5](#)

[Connecting the VPM 1.5 Administrator to the Database](#)

[Declaring the VPM 1.5 Administrator in the Database](#)

[CATDBENV Checkup](#)

[Generating the Connection Modules](#)

[CATDBENV Test](#)

[Database Migration](#)

[Updating P&O Processes](#)

[Generating the Shared Library libLV0XCDMA \(Mandatory after Structure Update\)](#)

[Migration Check](#)

### Migration of Old Databases

SQL/CLP Scripts	Check if they are really obsolete	Applying Conditions
vpmalter1	alter table \$EXT add C_MATXX	Mandatory
vpmalter2	alter table BOUNDING_BOX add VALID , TYPE , \$DATA	Mandatory
vpmalter3	alter table PART_LIST,CATIA_MODEL,DOCUMENT,\$EXT drop/create indexes on those tables	Mandatory
vpmalter4	alter table PART_LIST,CATIA_MODEL,DOCUMENT,\$EXT	Mandatory
vpmalter5	alter table \$EXT add C_LAST_MOD	Mandatory

### Migrating from a Previous Level



**In order to migrate from a previous level, use the shell *VPMPostinstall.sh* to list the different scripts to be applied or else edit the file *\$CATIA/vpm/reffiles/DBMS/VpmMigrationHistory.txt***

## Oracle and DB2 Replication Tools

If you install from scratch ENOVIA<sub>VPM</sub> 1.5 PTF16, you can use the Oracle and DB2 replication tools. A large number of tables have been modified to make this possible.

**Levels previous to 1.5 PTF16 do not support replication, even after migration.**

## Generic Process: Example from VPM 1.2 to 1.5

All the other migration levels have to follow this process, only check the different structure migration level. **VPM 1.5 Std** means without MultiSite PostInstallation.

### Prerequisite

1. Create two file systems:
  - o **Fs1: /usr/vpm/v15** for the VPM1.5 code
  - o **Fs2: /home/vpmadm15** for the VPM1.5 administrator home directory.
2. Then execute "First Phase - Software Initialization" as described in *Installation->Detailed Installation Procedure* in the ENOVIA<sub>VPM</sub> *Installation & Administration Guide*. This corresponds to the "catinst" phase (unload, Build Rif, runtime environment, create/update administrator)

In this document:

- **BASE** means **ORACLE\_SID** or **DB2DBDFT**
- **database** means ORACLE or DB2
- Database administrator: oracle on ORACLE, db2adm on DB2
- MYENV is one of the VPM environments. The VPM default environment name is VPMENV.
- /home/vpmadm12 is considered as the VPM1.2 administrator home directory. vpmadm12 is the VPM administrator at this level
- /home/vpmadm15 is considered as the VPM1.5 administrator home directory. vpmadm15 is the VPM administrator at this level
- /home/vpmadm15/MIGRATION is the path where to store files reserved for the migration.
- vpmdata or VPMDATA is the owner in the database of all VPM structure tables: VPM Data Administrator

## Connecting the VPM 1.5 Administrator to the Database

1. **Step 1** - Log on as vpmadm15.
2. Execute the following command:

```
$CATIA/vpm/code/command/VPMInstall.sh -database (oracle or db2)
```

This tool allows you to define environment variables.

We strongly recommend that you choose the /home/vpmadm15/env/YOUR.env update

3. Answer all questions then log off and log on.  
Using this tool, the following occurs:
  - o The file \$CAT\_CUST/env/YOUR.env is updated (if chosen).
  - o The directory \$CAT\_CUST/InstallVPM and its subdirectories are created.
  - o The directory \$CAT\_CUST/code/bin is updated.
  - o The directories \$CAT\_CUST/DB2\_MULTISITE and \$CAT\_CUST/ORA\_MULTISITE are created.
4. **Step 2** - Log on as vpmadm12.
5. Look for the VPM1.2 settings using the following:  
\$CAT\_CUST/env/VPMWsUser.sh  
env|grep -i setting

This results in:

```
CATUserSettingPath=/home/vpmadm12/CATSettings:/home/vpmadm12/QWksVPMWsUser/Settings  
CATReferenceSettingPath=/home/vpmadm12/adm/CATSettings:/home/vpmadm12/QWksVPMWsUser/Settings
```

These settings are mandatory in order to be able to connect to the database.

6. **Step 3** - Log on as vpmadm15.
  - o initialization files  
cd /home/vpmadm15/env  
cp \$CATIA/vpm/code/command/VPMWsUser.env VPMWsUser.sh  
cp \$CATIA/vpm/code/command/VPMWsAdm.env VPMWsAdm.sh

Edit the VPM1.2 VPMWs\*.sh files in order to update VPM1.5 VPMWs\*.sh files with your customization.

- o settings

According to the results in **Step 2**

```
cd /home/vpmadm15
cp -R /home/vpmadm12/CATSettings .
cp -R /home/vpmadm12/QWks* .
cd /home/vpmadm15/code/bin
cp /home/vpmadm12/code/bin/VPMDBEnv.sh .
```

**WARNING!** For the purposes of CATIA V5 interoperability, it is imperative to have an up-to-date *VPMWsUser.sh* (vs. VPM 1.2, VPM 1.3, etc.). Check to make sure that the following is in this shell:

```
CATReffilesPath = $CATIA/samples/adm
export CATReffilesPath
```

If this is not the case, add it.

You now have to validate the setting valuations for each workspace

```
cd /home/vpmadm15/env
. VPMWsUser.sh
VPMSettings -l
```

Check each setting valuation. If any settings refer to the VPM1.2 environment, copy the required data into the VPM1.5 environment then update the setting value.

- o DDL upgrade

```
cd /home/vpmadm15/InstallVPM/reffiles/DBMS/ddl
cp $CATIA/vpm/reffiles/DBMS/ddl/update2_SECURITY.* .
```

- o declaration parameter update
  - cd /home/vpmadm15/site/dec
  - In -s /home/vpmadm15/dec/CATCDMA.dcls **CATCDMA.dcls**
  - In -s /home/vpmadm15/dec/CATCDM.dcls **CATCDM.dcls**

Edit the VPM1.2 files in order to update VPM1.5 files with your customization. If any declaration parameters refer to the VPM1.2 environment, copy the required data into the VPM1.5 environment then update the declaration value.

Check the following declaration parameters carefully with the command `catpath -I -A`:

- CATCDM.ENV.CATCON must be valuated to CATCON if ORACLE or CATCON6 if DB2
- CATCDM.ENV.DBMINI must be valuated to DBMINI if ORACLE or DBMINI6 if DB2
- CATCDM.DBCONNECTION\_PROMPT must be valuated to YES if server and NO if client
- CATCDMA.DBCONNECTION\_PROMPT must be valuated to YES if server and NO if client

Do not forget the declaration parameter defined in the \$CATMSTR variable (USRENV.dcls file by default)

- o VPM interoperability
  - cd /home/vpmadm15/code/bin
  - VPMPostInstall.sh

Regenerate files for VPM interoperability then edit the VPM1.2 files in order to update VPM1.5 files with your customization files i.e. CustovpmToCatia.sh, CustovpmToV5.sh and so forth

## Declaring the VPM 1.5 Administrator in the Database

If you are working in **server authentication mode**, it is not mandatory to declare the VPM1.5 administrator in the database. You can use the VPM1.5 UNIX account and the VPM1.2 login to access the VPM database.

If you are working in **client authentication mode**, it is mandatory to declare the VPM1.5 administrator in the database. To do this, logged on as vpmadm12, run **VPMPeopleEdit**, create vpmadm15 and give it the VPMADMIN role of the ADMIN organization.

## CATDBENV Checkup

1. Log on as vpmadm15 .
2. Initialize the VPM environment using /home/vpmadm15/env/VPMWsUser.sh.
3. In \$CAT\_CUST/code/bin, launch CATDBENV and verify the instance for each known server.

## Generating the Connection Modules

To generate the connection modules use:

```
VPMInstall.sh -database (ORACLE or DB2)
```

In the tool, test the connection to the database then generate the connection modules.

These modules will be generated in the \$HOME administrator. So you have to copy them into the **\$STEPLIB**:

```
cd $CAT_CUST/code/steplib/$CATIA_OS  
cp -p /home/vpmadm15/JD06* .  
cp -p /home/vpmadm15/OB071USX .
```

Note that for ORACLE, if the connection test is not successful, you must refer to [Installation Problems](#). As an example, you may need to build the **libORAGLUE.x**. It is mandatory to build this library with the tool provided in **VPMInstall.sh -oracle**.

## CATDBENV Test

1. Log on as vpmadm15 .
2. Initialize the VPM environment using /home/vpmadm15/env/VPMWsUser.sh.
3. In \$CAT\_CUST/code/bin, launch CATDBENV and test the connection for each known server using the vpmadm15 user name and vpmadm15 password for the authentication server or nothing for the username and password for the authentication client.

## Mandatory Modification to be Made to VPM1.5 PTF4

1. In the shell \$CAT\_CUST/code/bin/Migrate\_Prepare\_files\_DB2.sh, replace:

```
# db2 "list tablespaces " | grep Name a mettre dans un fichier  
typeset -i is_found ; is_found=0
```

```
# db2 "list tablespaces " | grep Name > /tmp/list_tablespaces.$$
```

by:

```
# db2 "list tablespaces " a mettre dans un fichier  
typeset -i is_found ; is_found=0  
db2 "list tablespaces " > /tmp/list_tablespaces.$$
```

2. In the files \$CAT\_CUST/code/bin/Migrate\_Prepare\_files\_DB2.sh and \$CAT\_CUST/code/bin/Migrate\_Prepare\_files\_Oracle.sh, make the following changes (the changes are indicated in blue):

```
if [[ -f $CATIA/vpm/reffiles/DBMS/VpmMigrationHistory.txt ]] ; then  
pg $CATIA/vpm/reffiles/DBMS/VpmMigrationHistory.txt  
if [[ ! -d $MIGDIR ]]  
then  
mkdir -p $MIGRDIR  
chmod 755 $MIGRDIR  
fi  
cp $CATIA/vpm/reffiles/DBMS/VpmMigrationHistory.txt $MIGRDIR  
fi
```

## Database Migration

### DB2

database administrator: db2adm

### ORACLE

database administrator: oracle

## Migrating Your Database from the 1.2 to the 1.5 Structure

1. Log on as vpmadm15 .

You can let the VPM software migrate the database "semi-automated migration" or do the "manual migration" yourself.

## Case of Semi-automated Migration

1. Log on as vpmadm15 .  
    cd code/bin
2. Launch **VPMPostInstall.sh** .
3. Define the settings: select **VPMPostInstall settings**
  - Provide the CATIA\_OS, DBMS, VPM\_ADMINISTRATOR (database table owner) and VPMADMINISTRATOR password  
**ORACLE**  
ORACLE\_SID (Oracle connection string), DBA password.  
**DB2**  
DB2base, DB2Instance, DB2 home directory, DB2bin, user name and password for the database connection.
  - Check connect adm-string and connect vpm-string which are generated.
4. Read attentively the migration information in **VPMPostInstall**.
  - To read the information on migration, select **VPM Database structure migration** then **Migrate typedatabase data structure from 1.2 to 1.5 PTF4**
  - To read the information about the migration, select **VPM Database structure migration** then **Database Structure evolution history**. The information about the history of the migration are available in the file  
\$CATIA/vpm/reffiles/DBMS/VpmMigrationHistory.txt
  - To read the information about the generated scripts, select **VPM Database structure migration** then **prepare scripts / C stream** for the accurate database then **Help on VPM Migration HELP**.
5. Build the scripts for the database migration:
  - In **VPMPostInstall**, select **VPM Database structure migration** then **prepare scripts / C stream** for the accurate database then **select customize scripts / c streams**.
  - First you have to enter the name of your tablespaces and the datafiles path definition (for Oracle). In case you want a multisite installation, you have to install it when you are at VPM 1.4 GA level. If the multisite is not installed the table current\_site does

- o not exist and the file update6\_PUBSUB is not updated. You do not have to launch it.
- o Check the file **VPPARCUS** if you have the following lines, if not, please add them:

**ORACLE**

```
/* Creator and name of the new CDMA environment */
ASSIGN 'MYENV'          TO "GLOBAL_ENV"          ;
ASSIGN 'MYENV'          TO "GLOBAL_ENV_PWD"      ;
/* Oracle Tablespace directory */
ASSIGN '/mytablespacepath' TO "GLOBAL_DIR_TBSP" ;
```

**DB2**

```
/* Creator and name of the new CDMA environment */
ASSIGN 'MYENV'          TO "GLOBAL_ENV"          ;
ASSIGN 'MYENV'          TO "GLOBAL_ENV_PWD"      ;
ASSIGN ' '              TO "GLOBAL_DIR_TBSP"      ;
```

**BOTH**

```
ASSIGN 'MAIL'           TO "GLOBAL_DICOMAIL"     ;
ASSIGN 'PROFILE'        TO "GLOBAL_DICOPROF"     ;
```

then quit the editor vi with **q**.

- o The scripts are generated in the directory /home/vpmadm15/MIGRATION
- o Check the built files in /home/vpmadm15/MIGRATION

6. At this step you must check and/or modify some declaration parameters:

- o Log on as vpmadm15

“catpath -l -A catcdm.c\_stream” must be valuated to '/home/vpmadm15/MIGRATION'

**ORACLE**

“catpath -l -A catcdm.ENV.DBMINI” must be valuated to DBMINI.

“catpath -l -A catcdm.ENV.CATCON” must be valuated to CATCON.



Add the lines in the file /home/vpmadm15/USRENV.dcls:

```
catcdm.raw_coid : logical ;  
catcdm.raw_coid = TRUE ;
```

### **DB2**

“catpath -I -A catcdm.ENV.DBMINI” must be valuated to DBMINI6.

“catpath -I -A catcdm.ENV.CATCON” must be valuated to CATCON6.

7. For the migration of the database, the directory /home/vpmadm15/MIGRATION contains the scripts Run\_sql\_script\_files.sh (enabling the running of scripts for migration purposes) and Run\_dbcdmd.sh (enabling the running of command streams for migration purposes). Note that in these scripts there is an exit after each command which is why you must modify these files taking into account both the contents of VpmMigrationHistory.txt (see [History of VPM Migration from 1.2 GA to 1.5 PTF4](#)) and your own requirements:
  - o cd /home/vpmadm15/MIGRATION
  - o Check and modify the script Run\_sql\_script\_files.sh depending on your customization and VpmMigrationHistory.txt. The file Run\_sql\_script\_files.sh was built for a standard migration.
  
  - o **DB2**
    - You have to check the MML structure when you migrate your database from VPM1.2. See the instructions in Migrating your database from the 1.2 to the 1.3 structures : case of manual migration.
    - This shell builds, for each .clp file, a .log and a .lst file.
    - Check the .log and .lst file
    - When you are in *logretain* mode, you must make a backup of your database before launching the script *checkind\_CONFIG.clp*:  
db2 backup database BASE  
After the load phase (exportind2\_CONFIG.clp, createind2\_CONFIG.clp), importind2\_CONFIG.clp), you must launch the following command:  
db2 force application all  
db2 backup database BASE

- **ORACLE**

- You have to check the MML structure when you migrate your database from VPM1.2. See the instructions in Migrating your database from the 1.2 to the 1.3 structures : case of manual migration.
- To have the right to create and drop triggers in order to run the file update7\_PUBSUB.sql , launch the script MS\_step1\_migr\_Oracle.sql or do the following:  
sqlplus system/manager  
grant create any trigger to vpmdata  
grant drop any trigger to vpmdata
- Launch the shell Run\_sql\_script\_files.sh step by step and check the result after each step.
- For migration from the 1.2 to 1.3 structures, a new column must be added to the DOCUMENT table:  
alter table VPMENV.DOCUMENT ADD C\_TYPE\_REP VARCHAR (80);  
This must be done for all environments.
- Check and modify the script Run\_dbcdmd.sh depending on your customization and the file history VpmMigrationHistory.txt (see History of VPM Migration from 1.2 GA to 1.5 PTF4). This file was built for a standard migration.
  - Before launching the script VPINSTS8\_1 and VPINSTS8\_2 you must check that the table VPMENV.FEATSAMP does not already exist for any environment.
  - Before launching the script VPINSTS9\_1 and VPINSTS9\_2 you must check that the table VPMENV.DOCCAD does not already exist for any environment.

Launch the script Run\_dbcdmd.sh step by step and check the result after each step.

- This shell has built for each file in command stream an output file, check in those output files that the shell has no error in the execution.

## **Migrating Your Database from the 1.2 to the 1.3 Structure: Case of Manual Migration**

You have to check the structure of the MML table structure.

### **MML Table Structure**

1. Log on as database administrator.

2. Check each VPM environment structure using the following method:

### ORACLE

```
sqlplus system/manager
describe MYENV.MML_LINK
describe MYENV.MML_ENTITY
```

### DB2

```
db2
connect to BASE
describe select * from MYENV.MML_LINK
describe select * from MYENV.MML_ENTITY
```

### MYENV.MML\_LINK Structure in DB2

Sqltype	Sqllen	sqlname.data	sqlname.length
VARCHAR	18	OBJECT_CATAB	12
CHARACTER	8	OBJECT_COID	11
CHARACTER	8	OBJECT_COMPID	13
CHARACTER	8	ENTITY_ID_1	11
CHARACTER	8	ENTITY_ID_2	11
CHARACTER	8	ENTITY_KEY	10
CHARACTER	8	TYPE	4
TIMESTAMP	26	TS	2
CHARACTER	3	STATUS	6
CHARACTER	1	UBIT	4

### MYENV.MML\_ENTITY Structure in DB2

Sqltype	SqlLen	sqlname.data	sqlname.length
VARCHAR	18	OBJECT_CATAB	12
CHARACTER	8	OBJECT_COID	11
CHARACTER	8	OBJECT_COMPID	13
CHARACTER	8	ENTITY_ID_1	11
CHARACTER	8	ENTITY_ID_2	11
CHARACTER	8	ENTITY_KEY	10
VARCHAR	80	ENTITY_NICKNAME	15
TIMESTAMP	26	TS	2
CHARACTER	1	UBIT	4

**MYENV.MML\_LINK Structure in ORACLE**

Name	Null?	Type
OBJECT_CATAB	NOT NULL	VARCHAR2(18)
OBJECT_COID	NOT NULL	RAW(8)
OBJECT_COMPID	NOT NULL	RAW(8)
ENTITY_ID_1	NOT NULL	RAW(8)
ENTITY_ID_2	NOT NULL	RAW(8)
ENTITY_KEY	NOT NULL	RAW(8)
TYPE	NOT NULL	CHAR(8)
TS	NOT NULL	DATE
STATUS		CHAR(3)
UBIT		CHAR(1)

**MYENV.MML\_ENTITY Structure in ORACLE**

<b>Name</b>	<b>Null?</b>	<b>Type</b>
OBJECT_CATAB	NOT NULL	VARCHAR2(18)
OBJECT_COID	NOT NULL	RAW(8)
OBJECT_COMPID	NOT NULL	RAW(8)
ENTITY_ID_1	NOT NULL	RAW(8)
ENTITY_ID_2	NOT NULL	RAW(8)
ENTITY_KEY	NOT NULL	RAW(8)
ENTITY_NICKNAME		VARCHAR2(80)
TS	NOT NULL	DATE
UBIT		CHAR(1)

If your result is different on any of your VPM environments, please apply the following process.  
**WARNING!** Previous MML tables will be dropped so all previous MML entity links are deleted.

**ORACLE**

```
cd /home/vpmadm15/MIGRATION
cp $CATIA/vpm/reffiles/DBMS/ddl/NewMML.sql .
```

1. Log on as database administrator.

```
sqlplus MYENV/MYENV
@/home/vpmadm15/MIGRATION/NewMML
```

**DB2**

```
cd /home/vpmadm15/MIGRATION
```

```
cp $CATIA/vpm/reffiles/DBMS/ddl/NewMML.clp .
```

1. Edit the file in order to replace the environment name.
2. Log on as database administrator.

```
db2 connect to BASE  
db2 -tvf /home/vpmadm15/MIGRATION/NewMML.clp
```

## CONFIGURATION IMPROVEMENT

### DB2

Configuration database migration shell to add indexes on DB2 and improve PERFORMANCES about EDIT CONFIG, SELECT CONFIGH, EXPAND GRAPH

The following DB2 update does not need to be done if your VPM data structure was built in ENOVIAVPM1.1 and was migrated when you added the dedicated VPM1.1 PTF according to the ENOVIAVPM1.1 Program Directory.

## CONFIGURATION

1. Copy the following files into \$CAT\_CUST/MIGRATION:  
cp \$CATIA/vpm/reffiles/DBMS/ddl/checkind\_CONFIG.clp .  
cp \$CATIA/vpm/reffiles/DBMS/ddl/exportind2\_CONFIG.clp .  
cp \$CATIA/vpm/reffiles/DBMS/ddl/createind2\_CONFIG.clp .  
WARNING! Check to make sure that the generated files are read-only for all users:  
chmod atr\*.ixf  
cp \$CATIA/vpm/reffiles/DBMS/ddl/importind2\_CONFIG.clp .
2. In the ddl, replace VPMADM with the VPM Data Administrator (VPMDATA) then execute the following commands:

```
db2 backup database BASE  
db2 -tvf $CAT_CUST/MIGRATION/checkind_CONFIG.clp
```

The script returns the maximum length of each column. You must verify that lengths are less than:

MAX\_ID: 40  
MAX\_APPLY: 50  
MAX\_LOT\_SIZE: 254  
MAX\_MODIF\_ID: 40  
MAX\_ACTION\_TYPE: 1  
MAX\_OLDLINK: 50  
MAX\_OPTION\_ID: 40  
MAX\_OPTION\_TYPE: 40  
MAX\_OPTION\_LOT\_ID: 254

```
db2 -tvf $CAT_CUST/MIGRATION/exportind2_CONFIG.clp
db2 -tvf $CAT_CUST/MIGRATION/createind2_CONFIG.clp
db2 -tvf $CAT_CUST/MIGRATION/importind2_CONFIG.clp
```

After this load phase, the tablespace TBS\_INDEX may become:

Tablespace ID = 3  
Name = TBS\_INDEX  
Type = System managed space  
Contents = Any data  
State = 0x0020  
Detailed  
explanation:  
Backup pending

This is because you are in LOGRETAIN, i.e. in RECOVERY mode, so you have to do the following:

```
db2 force application all
db2 backup database BASE
```

After the backup, the tablespace BASE becomes:

Tablespace ID = 3  
Name = TBS\_INDEX  
Type = System managed space  
Contents = Any data  
State = 0x0000  
Detailed  
explanation:  
Normal

3. Copy update4\_CONFIG.clp, update5\_CONFIG\_1.clp and update5\_CONFIG\_2.clp from \$CATIA/vpm/reffiles/DBMS/ddl
4. Edit the files by replacing vpmadm with your vpm data administrator VPMDATA after doing a chmod +w on files
5. You can now run the following:  
db2 connect to BASE user vpmdata using vpmdata  
db2 -tvf update4\_CONFIG.clp  
db2 -tvf update5\_CONFIG\_1.clp  
db2 -tvf update5\_CONFIG\_2.clp

## ORACLE

1. Copy update4\_config.sql, update5\_CONFIG\_1.sql and update5\_CONFIG\_2.sql from \$CATIA/vpm/reffiles/DBMS/ddl
2. Edit the file update4\_config.sql as follows:
  - o Replace vpmadm with your VPMDATA (VPM data administrator) after doing a chmod +w on files
  - o Replace TSTVPM and TSIVPM and TBS\_INDEX
3. Edit the files update5\_CONFIG\_1.sql and update5\_CONFIG\_2.sql as follows:
  - o Replace vpmadm with your vpm data administrator VPMDATA after doing a chmod +w on files
  - o Replace TSTVPM and TSIVPM by TBS\_CONFIG

### Creation phase:

```
sqlplus system/manager  
sql> @update5_CONFIG_1.sql  
sql> quit
```



**Grant phase:**

```
sqlplus vpmadm/vpmadm or  
(depending on the authentication mode, you must use the table owner UNIX account)  
sql>@update4_CONFIG.sql  
sql>@update5_CONFIG_2.sql  
sql>quit
```

**DB2**

1. Copy update4\_CONFIG.clp, update5\_CONFIG\_1.clp and update5\_CONFIG\_2.clp from CATIA/vpm/reffiles/DBMS/ddl
2. Edit the files by replacing vpmadm with your vpm data administrator VPMDATA after doing a chmod +w on files.
3. Launch the scripts:  
db2 connect to BASE user VPMDATA using VPMDATA  
db2 -tvf update4\_CONFIG.clp  
db2 -tvf update5\_CONFIG\_1.clp  
db2 -tvf update5\_CONFIG\_2.clp

**BOTH**

A new column must be added to the \$EXT\_LF table:

**ORACLE**

```
alter table VPMENV.$EXT_LF ADD REPRES_TYPE VARCHAR (230);
```

**DB2**

```
alter table VPMENV."$EXT_LF" ADD REPRES_TYPE VARCHAR (230);
```

This must be done for all environments.

A new column must be added to the DOCUMENT table:

```
alter table VPMENV.DOCUMENT ADD C_TYPE_REP VARCHAR (80);
```

This must be done for all environments.

## Migrating Your Database from 1.3 to 1.4 PTF4 Structure: Case of Manual Migration

### ORACLE Migration

1. Log on as vpmadm15 .
 

```
cd /home/vpmadm15/MIGRATION
cp $CATIA/vpm/reffiles/DBMS/ddl/update_ADMIN.sql .
cp $CATIA/vpm/reffiles/DBMS/ddl/update_PEOPLE.sql .
cp $CATIA/vpm/reffiles/DBMS/ddl/update2_PUBSUB.sql .
cp $CATIA/vpm/reffiles/DBMS/ddl/update0_PUBSUB.sql .
chmod 777 update*
```
2. Edit each file and modify:
  - o VPM Data Administrator name: VPMDATA
  - o the tablespace name according to your database

#### Remarks:

- o Default tablespaces for those ddl's are in "Default Tablespaces table" at the beginning of this chapter.
- o You can check your tablespace using the following:

```
sqlplus system/manager
"select FILE_NAME, TABLESPACE_NAME from dba_data_files ;"
"select TABLE_NAME, TABLESPACE_NAME from dba_tables ;"
```

3. You can now run the following:

Server Authentication	Client Authentication
Log on as vpmadm15	Log on as vpmdata

<pre>sqlplus vpmdata/vpmdata @/home/vpmadm15/MIGRATION/update_ADMIN.sql @/home/vpmadm15/MIGRATION/update_PEOPLE.sql @/home/vpmadm15/MIGRATION/update2_PUBSUB.sql @/home/vpmadm15/MIGRATION/update0_PUBSUB.sql</pre>	<pre>sqlplus / @/home/vpmadm15/MIGRATION/update_ADMIN.sql @/home/vpmadm15/MIGRATION/update_PEOPLE.sql @/home/vpmadm15/MIGRATION/update2_PUBSUB.sql @/home/vpmadm15/MIGRATION/update0_PUBSUB.sql</pre>
---	---

4. At this step you must check and modify some declaration parameters:

Log on as vpmadm15

```
cd /home/vpmadm15/env
```

```
. VPMWsUser.sh
```

“**catpath -I -A catcdm.ENV.DBMINI**” must be valuated to **DBMINI**.

“**catpath -I -A catcdm.ENV.CATCON**” must be valuated to **CATCON**.

“**catpath -I -A catcdm.c\_stream**”

Modify the last one as follows:

```
catcdm.c_stream = '/home/vpmadm15/MIGRATION';
```

5. You also have to set the following declaration parameter:

**catcdm.raw\_coid : logical ;**

**catcdm.raw\_coid = TRUE ;**

```
cd /home/vpmadm15/MIGRATION
```

```
cp $CAT_CUST/adm/cdmbatch/CSORAPAR .
```

```
cp $CATIA/vpm/reffiles/DBMS/UPORASHA .
```

```
cp $CATIA/vpm/reffiles/DBMS/UPORAGRA .
```

```
cp $CATIA/vpm/reffiles/DBMS/VPPARPRO .
```

The aim is to make the new CATIA V5 Alternate Shape Table available for environments. The environment must have the

PART\_LIST table and DOCUMENT table(s).

The *UPORASHA* and *UPORAGRA* file does not have to be modified.

for the creation of the table DOCCAD (optional):

cp \$CATIA/vpm/reffiles/DBMS/VPINSTS9\_1 .

cp \$CATIA/vpm/reffiles/DBMS/VPINSTS9\_2 .

chmod 777 \*

6. Modify the beginning of files **VPINSTS9\_1** and **VPINSTS9\_2**:

Replace:	By:
*ON_ERROR STOP	*ON_ERROR STOP
*COMMAND	*COMMAND
VPPARCUS	CSORAPAR

The environment must have PART\_LIST table and DOCUMENT table(s).

7. For each environment, modify the file **CSORAPAR** as follows:

/\* Creator and name of the new CDMA environment \*/

ASSIGN 'MYENV' TO "GLOBAL\_ENV" ;

ASSIGN 'MYENV' TO "GLOBAL\_ENV\_PWD" ;

/\* Oracle Tablespace directory \*/

ASSIGN '/mytablespacepath' TO "GLOBAL\_DIR\_TBSP" ;;

8. Check in the file if you have the following lines: if not, please add them:

ASSIGN 'MAIL' TO "GLOBAL\_DICOMAIL" ;

ASSIGN 'PROFILE' TO "GLOBAL\_DICOPROF" ;

9. Run the following commands (for each environment):

**dbcdmb UPORASHA -u system -p manager -o UPORASHA**

and if no failed command is detected in the *UPORASHA.out* file:

```
dbcdmb UPORAGRA -u MYENV -p MYENV -o UPORAGRA
```

and if no failed command is detected in the *UPORAGRA.out* file:

Before launching this script you must check that the table VPMENV.DOCCAD does not already exist for any environment

```
dbcdmb VPINSTS9_1 -u system -p manager -o VPINSTS9_1
```

If no failed command is detected in the file *VPINSTS9\_1.out*:

```
dbcdmb VPINSTS9_2 -u VPMENV -p VPMENV -o VPINSTS9_2
```

10. Check output files for errors.

## DB2 Migration

1. Log on as vpmadm15 .

```
cd /home/vpmadm15/MIGRATION  
cp $CATIA/vpm/reffiles/DBMS/ddl/update_PEOPLE.clp .  
cp $CATIA/vpm/reffiles/DBMS/ddl/update_ADMIN.clp .  
cp $CATIA/vpm/reffiles/DBMS/ddl/update2_PUBSUB.clp .  
cp $CATIA/vpm/reffiles/DBMS/ddl/update0_PUBSUB.clp .  
cp $CATIA/vpm/reffiles/DBMS/ddl/update_ENTITY.clp .  
chmod 777 update*
```

2. Edit each file and modify:

- o VPM Data Administrator name: VPMDATA
- o the tablespace name according to your database.

Remarks:

- o Default tablespaces for those ddl's are in "Default Tablespaces table" at the beginning of this chapter.
- o You can check your tablespace using the following:  
db2 connect to BASE user db2adm using db2adm

```
db2 list tablespaces
db2 "select NAME,CREATOR,TBSPACE from sysibm.systables
where CREATOR='VPMDATA'"
```

3. You can now run the following:

```
" db2 connect to BASE user vpmdata using vpmdata "
" db2 -tvf /home/vpmadm15/MIGRATION/update_ADMIN.clp "
" db2 -tvf /home/vpmadm15/MIGRATION/update_PEOPLE.clp "
" db2 -tvf /home/vpmadm15/MIGRATION/update2_PUBSUB.clp "
" db2 -tvf /home/vpmadm15/MIGRATION/update0_PUBSUB.clp "
" db2 -tvf /home/vpmadm15/MIGRATION/update_ENTITY.clp "
```

4. At this step you must check and modify some declaration parameters:

```
Log on as vpmadm15:
cd /home/vpmadm15/env
. VPMWsUser.sh
```

```
"catpath -I -A catcdm.ENV.DBMINI" must be valuated to DBMINI6.
"catpath -I -A catcdm.ENV.CATCON" must be valuated to CATCON6.
"catpath -I -A catcdm.c_stream"
```

Modify the last one as follows:

```
catcdm.c_stream = '/home/vpmadm15/MIGRATION';
cd /home/vpmadm15/MIGRATION
cp $CAT_CUST/adm/cdmbatch/CSDB2PAR .
cp $CATIA/vpm/reffiles/DBMS/UPDB2SHA .
cp $CATIA/vpm/reffiles/DBMS/UPDB2GRA .
cp $CATIA/vpm/reffiles/DBMS/VPPARPRO .
```

The aim is to make the new CATIA V5 Alternate Shape Table available for environments. The environment must have PART\_LIST table and DOCUMENT table(s).

The *UPDB2SHA* and *UPDB2GRA* file does not have to be modified.

for the creation of the table DOCCAD (optional):

cp \$CATIA/vpm/reffiles/DBMS/VPINSTS9\_1 .

cp \$CATIA/vpm/reffiles/DBMS/VPINSTS9\_2 .

chmod 777 \*

- For each environment, modify the file **CSDB2PAR** as follows:

```
/* Creator and name of the new CDMA environment */
ASSIGN 'MYENV'          TO "GLOBAL_ENV"      ;
ASSIGN 'MYENV'          TO "GLOBAL_ENV_PWD"  ;
```

- Check in the file if you have the following lines: if not, please add them:

```
ASSIGN 'MAIL'          TO "GLOBAL_DICOMAIL"  ;
ASSIGN 'PROFILE'       TO "GLOBAL_DICOPROF"  ;
ASSIGN ' '              TO "GLOBAL_DIR_TBSP" ;
```

- Modify the beginning of files **VPINSTS9\_1** and **VPINSTS9\_2**:

Replace:	By:
*ON_ERROR STOP	*ON_ERROR STOP
*COMMAND	*COMMAND
VPPARCUS	CSDB2PAR

8. Run the following commands (for each environment):

```
dbcdmb UPDB2SHA -u db2adm -p db2adm -o UPDB2SHA
```

and if no failed command is detected in the *UPORASHA.out* file:

```
dbcdmb UPDB2GRA -u db2adm -p db2adm -o UPDB2GRA
```

9. The environment must have a PART\_LIST table and DOCUMENT table. Before launching this script you must check that the table VPMENV.DOCCAD does not already exist for any environment.

```
dbcdmb VPINSTS9_1 -u db2adm -p db2adm -o VPINSTS9_1
```

If no failed command is detected in the file *VPINSTS9\_1.out*:

```
dbcdmb VPINSTS9_2 -u db2adm -p db2adm -o VPINSTS9_2
```

10. Check the output files for any errors.

### **Migrating Your Database from 1.4 GA to PTF4**

This chapter only concerns VPM database structures that were created at VPM1.4 level. This means that you are concerned if your first ENOVIA<sub>VPM</sub> installation was done at this level (using *VPMInstall.sh* or *VPMInstall.sh -nocheck*).

For post-PTF4 levels, CATIA V5 links are now managed in the following new VPM tables:

- VPMDATA.VPM\_ENTITY
- VPMDATA.VPM\_LINK
- MYENV.FEATURE

So if your installation was done at a pre-PTF4 level , you need to run the *update\_ADMIN* script in order to create the tables:



- VPMDATA.VPM\_ENTITY
- VPMDATA.VPM\_LINK

1. Log on as vpmadm15 .  

```
cd /home/vpmadm15/MIGRATION
cp $CATIA/vpm/reffiles/DBMS/ddl/update_ADMIN.*
chmod 777 update_ADMIN*
```
2. Edit the file and modify:
  - o VPM Data Administrator name: VPMDATA
  - o The tablespace name according to your database

**Remark:**

Default tablespaces for those ddl are in "Default Tablespaces table" at the beginning of this chapter.

3. If the table VPMDATA.REPLICATION\_QUEUE already exists (relative to multisite), edit update\_ADMIN.\* then remove all the line linked to this table and its indexes.
4. You can now run the following:

**ORACLE:**

Server Authentication	Client Authentication
Log on as vpmadm15 sqlplus vpmdata/vpmdata @/home/vpmadm15/MIGRATION/update_ADMIN	Log on as vpmdata sqlplus / @/home/vpmadm15/MIGRATION/update_ADMIN

**DB2:**

“ db2 connect to BASE user vpmdata using vpmdata ”

```
“ db2 -tvf /home/vpmadm15/MIGRATION/update_ADMIN.clp ”
```

## Migrating Your Database from 1.4 PTF4 to 1.5 Structure: Case of Manual Migration

### Oracle Migration

1. Log on as vpmadm15 .  
cd /home/vpmadm15/MIGRATION  
cp \$CATIA/vpm/reffiles/DBMS/ddl/update\_SECURITY.sql .  
cp \$CATIA/vpm/reffiles/DBMS/ddl/update2\_SECURITY.sql .  
cp \$CATIA/vpm/reffiles/DBMS/ddl/update3\_PUBSUB.sql .  
cp \$CATIA/vpm/reffiles/DBMS/ddl/update5\_PUBSUB.sql .  
cp \$CATIA/vpm/reffiles/DBMS/ddl/update6\_PUBSUB.sql .  
cp \$CATIA/vpm/reffiles/DBMS/ddl/update7\_PUBSUB.sql .  
chmod 777 update\*
2. Edit each file and modify:
  - o VPM Data Administrator name: VPMDATA
  - o the tablespace name according to your database

#### Remarks:

- o Default tablespaces for those ddl's are in the Default Tablespace table at the beginning of this chapter.
- o You can check your tablespace using the following:

```
sqlplus system/manager  
“select FILE_NAME, TABLESPACE_NAME from dba_data_files ;”  
“select TABLE_NAME, TABLESPACE_NAME from dba_tables ;”
```

3. To have the right to create and to drop any triggers for the script update7\_PUBSUB.sql, run the script MS\_step1\_migr\_Oracle.sql or do the following:

```
sqlplus system/manager  
grant create any trigger to vpmdata
```

grant drop any trigger to vpmdata

4. You can now run the following:

Server Authentication	Client Authentication
<pre>Log on as vpmadm15 sqlplus vpmdata/vpmdata @/home/vpmadm15/MIGRATION/update_SECURITY.sql @/home/vpmadm15/MIGRATION/update2_SECURITY.sql @/home/vpmadm15/MIGRATION/update3_PUBSUB.sql @/home/vpmadm15/MIGRATION/update5_PUBSUB.sql @/home/vpmadm15/MIGRATION/update6_PUBSUB.sql @/home/vpmadm15/MIGRATION/update7_PUBSUB.sql</pre>	<pre>Log on as vpmdata sqlplus / @/home/vpmadm15/MIGRATION/update_SECURITY.sql @/home/vpmadm15/MIGRATION/update2_SECURITY.sql @/home/vpmadm15/MIGRATION/update3_PUBSUB.sql @/home/vpmadm15/MIGRATION/update5_PUBSUB.sql @/home/vpmadm15/MIGRATION/update6_PUBSUB.sql @/home/vpmadm15/MIGRATION/update7_PUBSUB.sql</pre>

5. To create the new CATIA V5 interoperability table **FEATURE**, **FEATSAMP** (new sample table for feature management, optional)

At this step you must check and modify some declaration parameters:

Log on as vpmadm15 .

```
cd /home/vpmadm15/env
. VPMWsUser.sh
"catpath -I -A catcdm.ENV.DBMINI" must be valuated to DBMINI.
"catpath -I -A catcdm.ENV.CATCON" must be valuated to CATCON.
"catpath -I -A catcdm.c_stream" must be modified to
catcdm.c_stream = '/home/vpmadm15/MIGRATION';
```

You have to set the following declaration parameter too:

```
catcdm.raw_coid : logical ;
catcdm.raw_coid = TRUE ;
cd /home/vpmadm15/MIGRATION
cp $CAT_CUST/adm/cdmbatch/CSORAPAR .
cp $CATIA/vpm/reffiles/DBMS/VPPARPRO .
```

```
for the creation of the table FEATURE:
cp $CATIA/vpm/reffiles/DBMS/VPINSTS7_1 .
cp $CATIA/vpm/reffiles/DBMS/VPINSTS7_2 .
```

```
for the creation of the table FEATSAMP (optional):
cp $CATIA/vpm/reffiles/DBMS/VPINSTS8_1 .
cp $CATIA/vpm/reffiles/DBMS/VPINSTS8_2 .
```

```
chmod 777 VP*
```

- Modify the beginning of files **VPINSTS7\_1**, **VPINSTS7\_2**, **VPINSTS8\_1** and **VPINSTS8\_2**:

Replace:	By:
*ON_ERROR STOP	*ON_ERROR STOP
*COMMAND	*COMMAND
VPPARCUS	CSORAPAR

The environment must have PART\_LIST table and DOCUMENT table(s).

- For each environment, modify the file **CSORAPAR** as follows:

```

/* Creator and name of the new CDMA environment */
ASSIGN 'MYENV'          TO "GLOBAL_ENV"          ;
ASSIGN 'MYENV'          TO "GLOBAL_ENV_PWD"      ;
/* Oracle Tablespace directory */
ASSIGN '/mytablespacepath' TO "GLOBAL_DIR_TBSP" ;;

```

8. Check in the file if you have the following lines: if not, please add them:

```

ASSIGN 'MAIL'          TO "GLOBAL_DICOMAIL"     ;
ASSIGN 'PROFILE'       TO "GLOBAL_DICOPROF"     ;

```

and run the following commands (for each environment):

```

dbcdmb VPINSTS7_1 -u system -p manager -o VPINSTS7_1
If no failed command is detected in the file VPINSTS7_1.out.
dbcdmb VPINSTS7_2 -u VPMENV -p VPMENV -o VPINSTS7_2

dbcdmb VPINSTS8_1 -u system -p manager -o VPINSTS8_1
If no failed command is detected in the file VPINSTS8_1.out.
dbcdmb VPINSTS8_2 -u VPMENV -p VPMENV -o VPINSTS8_2

```

## DB2 Migration

1. Log on as vpmadm15 .
 

```

cd /home/vpmadm15/MIGRATION
cp $CATIA/vpm/reffiles/DBMS/ddl/update_SECURITY.clp .
cp $CATIA/vpm/reffiles/DBMS/ddl/update2_SECURITY.clp .
cp $CATIA/vpm/reffiles/DBMS/ddl/update3_PUBSUB.clp .
cp $CATIA/vpm/reffiles/DBMS/ddl/update5_PUBSUB.clp .
cp $CATIA/vpm/reffiles/DBMS/ddl/update6_PUBSUB.clp .
cp $CATIA/vpm/reffiles/DBMS/ddl/update7_PUBSUB.clp .

```

```
chmod 777 update*
```

2. Edit each file and modify:

- o VPM Data Administrator name: VPMDATA
- o the tablespace name according to your database

3. Remarks:

- o Default tablespaces for those ddl's are in the Default Tablespace table at the beginning of this chapter.
- o You can check your tablespace using the following:  
db2 connect to BASE user db2adm using db2adm  
db2 list tablespaces  
db2 "select NAME,CREATOR,TBSPACE from sysibm.systables  
where CREATOR='VPMDATA'"

4. You can now run the following:

```
" db2 connect to BASE user vpmdata using vpmdata "  
" db2 -tvf /home/vpmadm15/MIGRATION/update_SECURITY.clp "  
" db2 -tvf /home/vpmadm15/MIGRATION/update2_SECURITY.clp "  
" db2 -tvf /home/vpmadm15/MIGRATION/update3_PUBSUB.clp "  
" db2 -tvf /home/vpmadm15/MIGRATION/update5_PUBSUB.clp "  
" db2 -tvf /home/vpmadm15/MIGRATION/update6_PUBSUB.clp "  
" db2 -tvf /home/vpmadm15/MIGRATION/update7_PUBSUB.clp "
```

5. To create the new CATIA V5 interoperability table **FEATURE**, **FEATSAMP** (new sample table for feature management, optional)

At this step you must check and modify some declaration parameters:

Log on as vpmadm15 .

```

cd /home/vpmadm15/env
. VPMWsUser.sh
"catpath -I -A catcdm.ENV.DBMINI" must be valuated to DBMINI6.
"catpath -I -A catcdm.ENV.CATCON" must be valuated to CATCON6.
"catpath -I -A catcdm.c_stream" must be modified as follows:
catcdm.c_stream = '/home/vpmadm15/MIGRATION' ;
cd /home/vpmadm15/MIGRATION
cp $CAT_CUST/adm/cdmbatch/CSDB2PAR .
cp $CATIA/vpm/reffiles/DBMS/VPPARPRO .
for the creation of the table FEATURE:
cp $CATIA/vpm/reffiles/DBMS/VPINSTS7_1 .
cp $CATIA/vpm/reffiles/DBMS/VPINSTS7_2 .
for the creation of the table FEATSAMP (optional):
cp $CATIA/vpm/reffiles/DBMS/VPINSTS8_1 .
cp $CATIA/vpm/reffiles/DBMS/VPINSTS8_2 .

chmod 777 VP*
```

6. Modify the beginning of files **VPINSTS7\_1**, **VPINSTS7\_2**, **VPINSTS8\_1** and **VPINSTS8\_2**:

Replace:	By:
*ON_ERROR STOP	*ON_ERROR STOP
*COMMAND	*COMMAND
VPPARCUS	CSDB2PAR

The environment must have PART\_LIST table and DOCUMENT table(s).

7. For each environment, modify the file **CSDB2PAR** as follows:

```
/* Creator and name of the new CDMA environment */
```

```
ASSIGN 'MYENV'          TO "GLOBAL_ENV"      ;
ASSIGN 'MYENV'          TO "GLOBAL_ENV_PWD"  ;
```

8. Check in the file if you have the following lines. If not, please add them:

```
ASSIGN 'MAIL'           TO "GLOBAL_DICOMAIL" ;
ASSIGN 'PROFILE'        TO "GLOBAL_DICOPROF" ;
ASSIGN ' '               TO "GLOBAL_DIR_TBSP" ;
```

9. Run the following commands (for each environment):

```
dbcdmb VPINSTS7_1 -u db2adm -p db2adm -o VPINSTS7_1  
If no failed command is detected in the file VPINSTS7_1.out.  
dbcdmb VPINSTS7_2 -u db2adm -p db2adm -o VPINSTS7_2
```

```
dbcdmb VPINSTS8_1 -u db2adm -p db2adm -o VPINSTS8_1  
If no failed command is detected in the file VPINSTS8_1.out.  
dbcdmb VPINSTS8_2 -u db2adm -p db2adm -o VPINSTS8_2
```

10. Check output files for errors. (If errors are encountered in *VPINSTS7\_1*, remove the insert part.)

## Updating P&O Processes

- Execute the following command under the VPM administrator:
  - Log on as `vpmadm15` .
  - `cd env`
  - `. VPMWsAdm.sh`



- o cd /home/vpmdm15/code/bin

Server Authentication	Client Authentication
<i>VPMDaMaManager</i> vpmdm15 vpmdm15	<i>VPMDaMaManager</i>

**Note: Remember to log off before starting VPM.**

- o Use *VPMPeopleEdit* to manage the new processes. The new processes in the P&O area as follows:

VPM	BOM	DeleteZone
VPM	CFG	AnalyseBranch
VPM	CFG	DeleteDateMilestone
VPM	CFG	DeleteRangeMilestone
VPM	CFG	ManageDateMilestone
VPM	CFG	ManageOptionDictionaryCorp
VPM	CFG	ManageRangeMilestone
VPM	CFG	ManageRules
VPM	CFG	ManageRulesCorp

## Upgrading the Licenses

Rule-based configuration and milestone creation also require using **Product Engineer**. This means you have to grant this license for each role.

## Granting CFG Processes for the Desired Roles

Example:

VPM CFG myData

or:

VPM CFG ManageRangeMilestone myOrgData

### Generating the Shared Library libLV0XCDMA (Mandatory after Structure Update)

1. Create a new directory *VPMP*SN under \$HOME (chmod 777 *VPMP*SN)
2. Under the *VPMP*SN directory, create the *NAV.in* file.
3. Repeat the last three lines for each environment:

```
*DB CATCON
*ENV MYENV
CATIA_MODEL
DOCUMENT
FEATURE
FEATSAMP
DOCCAD
....
```

#### Remarks:

- o To check your environments, in your **database**:

```
"select * from catia.coname"
```

- o To check tables CATIA\_MODEL and DOCUMENT:

```
"list tables for schema MYENV"
```

or

```
" select table_name from user_tables where owner='MYENV'
```

4. Add the following declaration parameter in your USRENV.dcls for each environment defined in the *NAV.in* file:

```
CATCDMA.VPM.CDMA_ENVIRONMENT='MYENV';
```

5. Generate and compile the Express Schema:

```
cd $CAT_CUST/env
. VPMWsAdm.sh
cd $CAT_CUST/VPMPNSN
catpsninst.sh NAV.in
```

This will create, in your current directory *libLV0XCDMA* that you have to copy into your \$STEPLIB (\$CAT\_CUST/code/steplib/\$CATIA\_OS by default).

**Migration Check**

1. Launch VPM and try to connect as vpmadm15.
2. Open the PSN graph.
3. If by any chance you cannot logon to VPM, do as follows:

```
Log on as vpmadm15
cd /home/vpmadm15/MIGRATION
cp $CATIA/vpm/reffiles/DBMS/ddl/grant_PEOPLE.*
chmod 777 grant_PEOPLE.*
```

Edit the file and modify the VPM Data Administrator name: VPMDATA

You can now run the following:

**ORACLE:**

Server Authentication	Client Authentication
<pre>Log on as vpmadm15 sqlplus vpmdata/vpmdata @/home/vpmadm15/MIGRATION/grant_PEOPLE</pre>	<pre>Log on as vpmdata sqlplus / @/home/vpmadm15/MIGRATION/grant_PEOPLE</pre>

**DB2:**

```
" db2 connect to BASE user vpmdata using vpmdata "
" db2 -tvf /home/vpmadm15/MIGRATION/grant_PEOPLE.clp "
```

## Installation Problems

### Identified Errors

<b>Problem 1</b>	You cannot log on as VPMADMIN user to verify what was created in the database.
<b>Solution</b>	Try to logon as this user in order to see if you are prompted to change the password.

<b>Problem 2</b>	Oracle attempts to enter the db but seems to go into an infinite loop (or a tnsnames.ora error) or Unknown class error ( = VX0TCNX VPMADMIN error or VPMDDataManager)
<b>Solution</b>	<ul style="list-style-type: none"> <li>• Verify the tnsnames.ora and listener.ora syntax (look for null characters ( CR or spaces) by the end of the lines).</li> <li>• Verify the value of the TNS_ADMIN environment variable.</li> <li>• Check if the authentication of the database corresponds to the authentication you want with VPM (see <a href="#">VPM Authentication Modes</a>).</li> </ul>

<b>Problem 3</b>	ddl error
<b>Solution</b>	<ul style="list-style-type: none"> <li>• The database is not cleaned properly (see "Cleaning Your Database" in the <i>ENOVIA<sub>VPM</sub> Installation &amp; Administration Guide</i>).</li> <li>• There is not enough space on disk (FS) for TBS.</li> </ul>

<b>Problem 4</b>	<p>You get the following message during installation:</p> <pre>Can't open library libPR0ORAC.a --&gt; reason = A file or directory in the path name does not exist. Can't open library libPR0ORAC_Connection.a --&gt; reason = A file or directory in the path name does not exist.</pre>
<b>Solution</b>	<ul style="list-style-type: none"> <li>• Regenerate the lbcIntsh library.</li> <li>• Regenerate the liboraglua library.</li> <li>• Verify if the listener had really launched the instance used.</li> <li>• Verify that the compilers are working properly (cp a *.f file in temp and launch f77 file_name.f)</li> </ul>

<b>Problem 5</b>	<p>On AIX and SUN you get the following message during installation:</p> <pre>Can't open library libPR0ORAC.a --&gt; reason = A file or directory in the path name does not exist. Can't open library libPR0ORAC_Connection.a --&gt; reason = A file or directory in the path name does not exist.</pre>
<b>Solution</b>	<ul style="list-style-type: none"> <li>• Regenerate a library ( libORAGLUE.a or libORAGLUE.so ) with \$CAT_CUST/code/bin/oracleglue.sh:</li> <li>• Oracle 8.0.0 and higher: You need to set and export the following UNIX variable:  <pre>export _Oracle_8_VPM=YES</pre> </li> <li>• Oracle 8.0.4 and 8.0.6: You normally do not have to rebuild this lib.</li> <li>• Oracle 8.0.5: Due to a modification to the include file by Oracle the oratypes.h file delivered by Oracle must be edited as follows:  <pre>#ifndef lint</pre> </li> </ul>

```

typedef unsigned long ub4
typedef signed long sb4
must be changed to:
#ifdef lint
typedef unsigned int ub4
typedef signed int sb4
    
```

<b>Problem 6</b>	You get the following message during installation: Can't open library libPR0ORAC.so --> reason = Symbol slpmprodstab : referenced symbol not found Can't open library libPR0ORAC.so_Connection.so --> reason = No such file or directory
<b>Solution</b>	<ul style="list-style-type: none"> <li>• In the genclntsh shell script, comment the line: ar d \$LIBCOMMON sorapt.o</li> <li>• Regenerate the libclntsh library.</li> </ul>

<b>Problem 7</b>	On AIX
<b>Solution</b>	Verify that /usr/ibmcxx/bin is correctly initialized in \$PATH.

<b>Problem 8</b>	VPMInstall.sh fails at CDMA level
<b>Solution</b>	Verify that the path given to the catia.C_STREAM is less than 44 characters. Usually the path given to this variable is \$CAT_CUST/InstallVPM/reffiles/DBMS. In that case, you have to move the administrator home into a shorter path.

<b>Problem 9</b>	VPMInstall.sh fails with ABEND U998
<b>Solution</b>	Clean the running processes ---> ps -fu VPMADM ---> kill -9 "License process numbers". Clean the database (see the <i>ENOVIA<sub>VPM</sub> Installation &amp; Administration Guide</i> ). Relaunch the ENOVIA <sub>VPM</sub> installation.

<b>Problem 10</b>	Using the PSN fails with ABEND S0004
<b>Solution</b>	Add the following declaration parameters:  <pre>CATCDMA.VPM.EXPAND.OLD.BEHAVIOR : logical ; CATCDMA.VPM.EXPAND.OLD.BEHAVIOR = TRUE;</pre>

<b>Problem 11</b>	When generating the PSN library on Solaris, if shell script traces are ON, an error occurs and the PSN library is not built.
<b>Solution</b>	In the script file catpsninst.sh, replace all occurrences of the line:  <pre>VCOMP='head -1 \$TMP   cut -d"+" -f3   cut -d"." -f1'</pre> with:  <pre>VCOMP='tail -1 \$TMP   cut -d"+" -f3   cut -d"." -f1'</pre> and replace the line:

```

    $SH_LIBPATH $SH_LIB *.o -o libLV0XCDMA.so
with:
    $SH_LIBPATH $SH_LIB $OBJECTS -o libLV0XCDMA.so

```

## Compiler Support

### Support of compiler SunOS V5

The installation supports this new compiler. The following script shells must however be updated:

BuildSchema.sh	Compiles and builds the express schema library
VPMExchangesInst.sh	Installation shell for VPM export/import mapping environment
makeLV0XUSR.sh	Installation shell for VPM1 user exits: CATDMUsrMethod
makeVX0AFUSR.sh	Installation shell for VPM1 user exits: CATVpmAFUsrMethod
makeVX0PEUSR.sh	Installation shell for VPM1 user exits: CATVpmPEUsrMethod
migrinst.sh	Installation shell for migration

### Update

To find out the compiler level, log on and enter the following: SunOS> CC -V

If the version is 5, go into the shells listed above and replace "SunOS" with:

```
CC par CC -compat=4
```



## Compiler V5 on Solaris 8

If problems are encountered, the compiler can be downgraded to level 5.0 .

## Multisite

1. If you are using **DB2 V7** when setting up a multisite environment, before running *VPMPostInstall.sh* make sure you modify the following files:

```
$CAT_CUST/InstallVPM/reffiles/DBMS/ddl/create_Tbs_EXPORT_DB2.clp  
$CAT_CUST/InstallVPM/reffiles/DBMS/ddl/create_Tbs_IMPORT_DB2.clp
```

to uncomment the "grant" command.

2. Add the Multisite declaration parameters if they are missing after installation on the PTF1 level. (See the relevant documentation.)

## Updating Your Administrator Environment after each PTF Installation

1. In your \$HOME directory:  
rm -rf InstallVPM directory  
rm DB2\_MULTISITE and ORA\_MULTISITE directories according to customization
2. Launch VPMInstall.sh -db to update scripts.
3. Modify files in the DB2\_MULTISITE and ORA\_MULTISITE directories.
4. In ORA\_MULTISITE, a directory should be created, at the first export, with the export site name.
5. If not, create this directory and copy inside the different files by default. (Check the Customization guide in *VPMPostInstall.sh*.)

## Updating Multisite From VPM 1.4 to VPM 1.5

1. Follow the documentation as described in *VPMPostInstall.sh*, "Multisite Support".
2. Site is now inserted in the database using the *VXOPESIT* utility through the *VPMPostInstall.sh* procedure. (Do not forget the new post-installation settings.)

You are prompted to give your " **VPM DATABASE NAME DEFINITION** ". This means the SITE NAME you want to insert.

## Migrating Multisite from the VPM 1.5 GA Level to the PTF1 Level

1. Update your Admin directory as previously described.
2. Copy the \$HOME/multisite directory into the \$HOME/site directory.
3. Check to make sure that the file \$HOME/site/multisite/PARTLIST.txt is present.
4. Source `./env/YOUR.env` to be sure that \$VPM\_DB\_IMPORT\_CONFIGURATION\_FILE is set (DB according to your DBMS)
5. Launch `VPMPostInstall.sh` and choose MULTISITE Support/Migration from GA Level to PTF1 Level. A new table should be created.
6. If nothing is displayed, check your \$VPM\_DB\_IMPORT\_CONFIGURATION\_FILE

## CATIA V5R7 Interoperability Settings

The CATSettings definition for VPM database connection must be done at GA Level and set outside interactive CATIAV5/Tools. You need to generate CATDbServers.CATSettings as follows:

1. Logon as VPMADM.
  2. Source the V5 environment.
  3. Launch the V5 CATDBENV utility and set your connection parameters.
- The file `CATDbServers.CATSettings` will be generated in \$HOME/CATSettings
  - CDM Dictionary and Mapping have to be done in interactive CATIA V5/Tools.

## Multisite - DBLFCDM Data Import/Export Problem

When importing and exporting DBLFCDM data, model geometry is not loaded into CATIA V4/V5 causing error 803 in DB2 and error -1 in ORACLE. To avoid this, do as follows:

In DB2	Correct the file <code>MS_import_DB2.clp</code> by commenting the line:  <pre>import from %3/INFO_LF.IXF of ixf insert into CDMOWNER.INFO_LF ;</pre> by putting "--" just before it:
--------	---

	-- import from %3/INFO_LF.IXF of ixf insert into CDMOWNER.INFO_LF ;
In <b>ORACLE:</b>	In the directories \$MULTI_DIRECTORY/site_name (where "site_name" is the directory with the name of the site from where the data is to be imported), correct the file <i>authorized_import_files</i> by removing the line INFOLF to avoid importing the fields in the table CDM.INFO_LF.

## Declaration Quick Reference

### Declaration Parameter catcdma.DBCS.ORACLE

**Category** Environment Setup Parameter

**Purpose** This parameter corrects a DBCS character problem affecting P & O requests on ORACLE. The default setting is TRUE with the effect that things work as before. If FALSE is used instead DBCS characters are supported except on certain items in P & O on ORACLE.

**Type** Logical

**Default Value(s)** TRUE

**Declaration Example** catcdma.DBCS.ORACLE=FALSE;

### Declaration Parameter catcdma.VPM.MML.CACHE.INCREMENTAL

**Category** MML

**Purpose** This parameter is TRUE by default (you are strongly advised, for performance reasons, to use TRUE. This means that the MML cache is not fully read each time a new MML window is opened or a refresh is made, but is read incrementally at each single expand operation. The result is that the MML window appears very quickly, but the expand is slower. This behavior is particularly useful when dealing with large databases and relatively small MML trees.

**Type** Logical

**Default Value(s)** TRUE  
**Declaration Example** catcdma.VPM.MML.CACHE.INCREMENTAL=FALSE;  
(corresponds to the old behavior i.e. prior to VPM 1.3 PTF11)

**Declaration Parameter** catcdma.VPM.SIMPLE\_QUERY.LASTVERSION

**Category** Simple query customization

**Purpose** This parameter indicates whether simple queries should only return the last version of the resulting parts, instead of all the versions.  
Note: This parameter is only effective for Part objects and for queries performed from the simple query combo box in the main panel: it has no effect on queries performed from the query panel.

**Type** Logical

**Default Value(s)** FALSE

**Declaration Example** catcdma.VPM.SIMPLE\_QUERY.LASTVERSION=TRUE;

**Declaration Parameter** catcdma.QUERY.OPERATOR\_START\_WITH

**Category** Advanced query customization

**Purpose** This parameter indicates whether advanced queries should use the *Start With* operator as default, instead of *With*.

**Type** Logical

**Default Value(s)** FALSE

**Declaration Example** catcdma.QUERY.OPERATOR\_START\_WITH=TRUE;

**Declaration Parameter** catcdma.VPM.GRAPHSESSION.C\_COUNT

**Category** Graph session

**Purpose** This parameter allows you to manage C\_COUNT attributes in static PSN sessions.

This means that if a Part has no child, its CATASS attribute will no longer be read in the database. Also, when a Part is pasted and cut and the graph is saved, the cut link will no longer reappear when the session is read.

Note that:

- you need to rebuild the *libLV0XCDMA* library in order to update the *cdma.express* schema to take into account this correction.
- These corrections are effective only with new sessions as new data is required from the new schema.

**Type** Logical

**Default Value(s)** FALSE

**Declaration Example** `catcdma.VPM.GRAPHSESSION.C_COUNT=TRUE;`

**Declaration Parameter** `catcdma.*.IMPORT`

**Category** Environment Setup Parameter

**Purpose** This parameter allows you, for a specified user name label, not to write models or documents when importing. The representations referenced by the STEP file to be imported are neither updated nor created.

**Type** Logical

**Default Value(s)** FALSE

**Declaration Example** `catcdma.IMPORTDS203.IMPORT = TRUE ;`

**Declaration Parameter** `catcdma.STEP.MODE.REP.IMPORT`

**Category** Environment Setup Parameter

**Purpose** Allows, in the absence of a representation, not to create or update the representation metadata during the VPM import process. To do so, the value should be set to `NONE`.  
The default behavior is creation or update of the representation metadata.

**Type** String

**Default Value(s)** ''

**Declaration Example** `catcdma.STEP.MODE.REP.IMPORT=NONE;`

**Declaration Parameter** `catcdma.VPM.OPT_GRAPH.HIDE_REJECTED_MNGT`

**Category** Environment Setup Parameter

**Purpose** Automatically hides rejected options in the dictionary graph. This simplifies configuration definition by reducing the amount of displayed options at each user selection.

**Type** Logical

**Default Value(s)** FALSE

**Declaration Example** `catcdma.VPM.OPT_GRAPH.HIDE_REJECTED_MNGT = TRUE`

**Declaration Parameter** `catcdma.VPM.EXPAND.INQMARK`

**Category** Environment Setup Parameter

**Purpose** For Product Structure queries, this declaration parameter controls the number of values in queries such as `WHERE $COID IN (?,?, ...)`. You can change the default value, but if you do so, exercise caution.  
If you use a larger number, you minimize the number of queries on the server but you need more server memory. If the number you choose is below 75 you need less memory on the server but you increase the number of queries.

For configuration queries, see [catcdma.VPM.CFGDB.MAX\\_ARG](#).

**Type** Integer

**Default Value(s)** 250

**Declaration Example** catcdma.VPM.EXPAND.INQMARK= 100

**Declaration Parameter** catcdma.VPM.CFGDB.MAX\_ARG

**Category** Environment Setup Parameter

**Purpose** For configuration queries, this declaration parameter controls the number of values in queries such as WHERE \$COID IN (?,?, ...). You can change the default value, but if you do so, exercise caution. If you use a larger number, you minimize the number of queries on the server but you need more server memory. If the number you choose is below 75 you need less memory on the server but you increase the number of queries. To minimize *APP\_CTL\_HEAP\_SZ* on a UDB 7.2 server you can set `CATCDMA.VPM.CFGDB.MAX_ARG` to 100. For Product Structure queries, see [catcdma.VPM.EXPAND.INQMARK](#).

**Type** Integer

**Default Value(s)** 200

**Declaration Example** catcdma.VPM.CFGDB.MAX\_ARG = 100

**Declaration Parameter** catcdma.VPM.MML.CATIA\_V5

**Category** MML

**Purpose** This parameter enables you to visualize the CATIA V5 links in the MML graph if they exist.

**Type** Logical

**Default Value(s)** FALSE

**Declaration Example** catcdma.VPM.MML.CATIA\_V5=TRUE;

**Declaration Parameter** catcdma.VPM.MML.CATIA\_V5\_RELEASE\_VALIDITY  
**Category** MML  
**Purpose** This parameter enables you to visualize the correct CATIA V5 link synchronization.  
 WARNING! This parameter may prove to be CPU-intensive.  
**Type** Logical  
**Default Value(s)** FALSE  
**Declaration Example** catcdma.VPM.MML.CATIA\_V5\_RELEASE\_VALIDITY=TRUE;

**Declaration Parameter** catcdma.PSN.REPLACE\_CUSTOM  
**Category** Product Structure customization  
**Purpose** When set to `TRUE`, this parameter provides access to a new graph, by means of the *Replace/Custom* command in the contextual menu of Part objects in the Product Structure, making it possible to replace the selected Part(s) with those provided by the dedicated user exit `CATDMUsrMethod::GetReplaceCustomParts()` instead of the one in the clipboard.  
**Type** Logical  
**Default Value(s)** FALSE  
**Declaration Example** catcdma.PSN.REPLACE\_CUSTOM=TRUE;

## Startup Session

A startup session is a VPM file containing a run-time environment that the user defines and saves and can then select at login time. This means that it opens automatically in VPM and the user can start working directly in his current environment. A session is selected from the VPM login panel with a combo box showing the history of the last sessions opened. It is possible to define a new startup session by pressing the button, which displays the session file dialog. A startup session file can be a query (*.qry*) or graph (*.psn*) file. The type is selected using the *File type* combo box in the session file dialog. Selecting either type automatically activates the corresponding file filter. When the selected type is *Graph*, extra options can be activated:



- **load mode**  
Indicates whether the file should be loaded as a static or dynamic PSN file
- **instance mode**  
Indicates whether all branches are to be opened or selected ones
- **viewer**  
Indicates if a viewer (CATIA, 4D Navigator, etc.) should be started automatically so that the selected instances as referenced in the graph files can be directly loaded into it.

If *None* is selected in the history combo box, VPM will be started as usual without any session file opening.

Note that:

- Startup sessions are made available by setting to *YES* the VPM variable `VPM_STARTUP_SESSION`
- If the variable `VPM_STARTUP_SESSION_AUTO` is also set to *YES*, the login process will resume automatically as soon as a session file is selected (i.e. the user will not have to press the *OK* button).

## MML

### PTF1

The *Print Tools* menu has been added to the MML editor. This menu is similar to the *File* menu in the PSN in that it contains the following items:

- **Configure printers**  
Enables default printer configuration
- **Print graph**  
Prints the current graph
- **Capture graph**  
Captures the current graph in bitmap or vector format
- **Capture album**  
Stores and visualizes captured images.

The behavior of the declaration parameter `catcdma.VPM.MML.CACHE.INCREMENTAL` has been modified.

## PTF2

The environment(s) to be used for searching for MDLTOMDL-type MML links must now be defined by selecting the *File->Settings...* menu item and then the *Relation* tab. There are three options defining the environment(s) where database requests are to be made:

- All environments
- Current environment
- Selected environments.

## PTF3

- The *Identify* function allows you to select a solid in the CATIA V4 viewer and then see highlighted in the MML graph the models pointing to the selected solid. To use this function, place the cursor on the model objects in the graph and then select *Identify* in the contextual menu.

**IMPORTANT!** Remember to load the model into the CATIA V4 viewer beforehand.

- ATOMIGMML can be used for batch migration of MDLTOMDL links to ENTITY links. This batch writes the ENTITY links and deletes the MDLTOMDL links of an MML structure. The command to be used should look like this:

```
ATOMIGMML -file <file name> -user <VPM user>
```

You can add other optional arguments:

- -role <VPM role for the user>
- -org <VPM organization for the user>
- -pwd <user password>

The input file contains information about the root model of the structure. The structure is expanded in *Impacted By* mode and all the MDLTOMDL links found between models are then migrated. The file looks like this:

```
<CAENV>  
<CATAB>  
<COID> (hexa format)  
<COMPID> (hexa format)
```

The declaration parameter for MML link creation must be set correctly:

```
CATCDMA.MML_TYPE_EXPORT = 'ENTITY';
```

The L3016MML module must be built beforehand. As L2011MML is identical to L3016MML, you can refer to the L2011MML synchronization module construction process described in "Building the Synchronization Batch Executable Program" in the section "Customizing V4 Multimodel Link Dependencies" of the *ENOVIA<sub>VPM</sub> Installation and Administration Guide*.

The script shell declaration parameter must also be correctly valuated:

```
CATCDMA.VPM.MML.MIGRATE.SCRIPT : STRING;  
CATCDMA.VPM.MML.MIGRATE.SCRIPT = '/tmp/bin/MMLMigr.sh';
```

Note that the location where the script shell can be found by VPM is:

```
/tmp/bin/MMLMigr.sh
```

(MMLMigr.sh is delivered as a command sample.)

- The environments where MML requests are to be made are now defined by the *File->Settings->Relation* command. For example, an MML link between an entity of environment A and an entity of environment B will only be seen if both environments are selected.

## PTF4

### Using V4 Multi-Model Link Dependencies

#### Context Menus on Objects

- **Identify** - Allows you to identify the models containing a solid used in the reference model.

Note: The reference model must be loaded in CATIA V4 beforehand.

The **Identify** menu starts a dialog in CATIA V4. You must then select an exact solid (SolidE); the MML graph will highlight the models where this solid is used.

## MultiCAD

### PTF1

Until now, the MultiCAD server used a login file in server authentication mode. It is now MANDATORY whatever the mode.

To create this file:

1. In the PNO panel in VPM, select the menu item Setup->Batch login creation.  
The "Batch Login" panel appears.
2. Complete all the fields in this panel.  
The name of the application must be LV0SRVXC.

For more information, see "Batch Login File Creation and Usage" in the *ENOVIA<sub>VPM</sub> Installation and Administration Guide* (Basic Tasks->People & Organization Administration->Managing the Setup).

## PTF2

- The MultiCAD server can now accommodate the name of the VPM user as an argument (the UNIX user is the default).  
Example: LV0SRVXC vpm\_user
- Generation of cgr, NCGM, etc. for ProE documents:  
The V5 utility CATDMUUtility does not accept .prt file names in uppercase. Similarly, when requesting NCGM output the root of the name must be in lowercase.  
Using the shell CATStartV5GenXCADFilesPRTNCGM.sh will solve these problems for the moment.

**IMPORTANT!** Remember to customize the declaration parameter:

```
CATCDMA.VPM.PRT.TO.V5='CATStartV5GenXCADFilesPRTNCGM.sh ....';
```

where .... represents any options you may wish to specify.

CATStartV5GenXCADFilesPRTNCGM.sh looks like this:

```
#!/bin/ksh
#=====
# 09/08/1999 : Create
# V5 environment initialization
# Generation of the launching shell generating Format, BoundingBox and 3Dmap
#=====
fileSH=$1"sh" #Temporary file
fileLOG=$1"log" #Trace file
fileTyp="prt"
t1='echo $2 | cut -d\"" -f2'
fileOri='echo $t1 | cut -d\"" -f1'
fileNew="/tmp/"$$"."$fileTyp
cp $fileOri $fileNew
shift 2
#cmdParam="-f "$fileNew" "$*
```

```

unset ncgmNew
cmdParam="-f "$fileNew" "
typeset -i t=0
typeset -L1 tiret
for i in $*
do
tiret=$i
if [[ $tiret = '-' ]]; then
if [[ $i = "-NCGM" ]]; then
t=1
fi
cmdParam=${cmdParam}${i} "
else
if [ $t = 1 ]; then
ncgmOri=$i
ncgmNew="/tmp/"$$".NCGM"
cmdParam=${cmdParam}${ncgmNew} "
t=0
else
cmdParam=${cmdParam}${i} "
fi
fi
done
#=====
#V5 environment settings
. CustovpmToV5.sh CATIA
#=====
#Set up the utility launching shell : file $fileSH
echo "#!/bin/ksh" > $fileSH
echo "unset PANELV2ODOTOP" >> $fileSH
echo "CATDMUtility $cmdParam > $fileLOG 2>&1" >> $fileSH
echo 'stat=$?' >> $fileSH
echo 'exit $stat' >> $fileSH
#=====
#Ok, launch the utility
chmod 777 $fileSH
$V5_Starter -run $fileSH
stat=$?
if [ -a $fileNew ]; then
\rm $fileNew
fi
if [ $ncgmNew ]; then
if [ -a $ncgmNew ]; then

```

```
mv $ncgmNew $ncgmOri
fi
fi
unset PANELV2ODOTOP
if [ -a $fileSH ]; then
\rm $fileSH
fi
exit $stat
```

- The shell `VPMStart.sh` has been modified. The new version should be copied from the tar file (see [Administration shell scripts](#)).

## Program Level Information

All the problems fixed in ENOVIA<sub>VPM</sub> Version 1 Release 2 until PTF 4 have been incorporated into ENOVIA<sub>VPM</sub> Version 1 Release 5.

## PTF1 Update

### REMEMBER to rebuild the user exits!

User exit sample resides under `$CATIA/code/sample` .

## Declaration Parameters

- For correction of a character problem in P & O on ORACLE, see [catcdma.DBCS.ORACLE](#)
- The behavior of the declaration parameter [catcdma.VPM.MML.CACHE.INCREMENTAL](#) has been modified.

## Startup Session

### MML

## Multisite - DBLFCDM Data Import/Export Problem

### Cumulative Fixes PTF1

OS	UB	OS	UB	OS	UB	OS	UB
IX	UB88358	HP	UB88341	SG	UB88351	SU	UB88362
IX	UB88338	HP	UB88363	SG	UB88343	SU	UB88333
IX	UB88335	HP	UB88347	SG	UB88340	SU	UB88352
IX	UB88349	HP	UB88355	SG	UB88360	SU	UB88337
IX	UB88357	HP	UB88348	SG	UB88359	SU	UB88361
IX	UB88346	HP	UB88342	SG	UB88344	SU	UB88364
IX	UB88336	HP	UB88356	SG	UB88350	SU	UB88334
IX	UB88354	HP	UB88345	SG	UB88339	SU	UB88353

### Free Text PTF1

<b>AFL</b>	<ul style="list-style-type: none"> <li>• HC79142: Concurrent accesses of an Action cause loss of information.</li> <li>• When an Action is created from a MML graph, the model is now associated as a model and not as an external file.</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• PB deployment part</li> <li>• Core dump after copy VPM-A / paste PSN / Commit</li> <li>• HC81369: Growth of table LF0001</li> <li>• HC78277: Cycles are not prevented when links are created within VPMA.</li> <li>• HC81997: When a model attribute is changed, there is a different result in VPM 1.3 PTF9 and 1.2 PTF12.</li> <li>• HC72433: In the PSN boxes and in the PROPERTY panel, an integer is now displayed with the number of digits declared through the MAX value in the profile.</li> <li>• The cdma_id in the .pst are cleaned up for next storages.</li> <li>• When a VPM 1.3 session was read in VPM 1.4, it was dynamic and without any</li> </ul>

	<p>filter (the .pst and .vlm were not taken into account). Now it may be dynamic or static and the CSB filter is applied.</p> <ul style="list-style-type: none"> <li>• HD00034: Not possible to use VPM filter in batch mode.</li> </ul>
<b>CFG</b>	<ul style="list-style-type: none"> <li>• HC81505: The user can update link information by part of configured old version.</li> <li>• Option/Category rename from corporate to update the whole database</li> <li>• The following links can now be filtered by effectivity: Part-Feature, Part-Document, Part-Model.</li> </ul>
<b>Install</b>	<ul style="list-style-type: none"> <li>• A sample Feature table has been created in the default VPMENV environment. This table is now available as soon as a new installation is performed.</li> <li>• A correction has been delivered related to VPM + ORACLE 817 + AIX. The shell <i>rootpre.sh</i> must be applied to every VPM client, under AIX + Oracle 817 and higher.</li> </ul>
<b>Interoperability 3dcom</b>	<ul style="list-style-type: none"> <li>• HC78949: When declaring more than 20 datalink servers, we cannot read or write CATIA models.</li> <li>• Memory clean up has been enhanced.</li> <li>• The performance of the EDIT CONFIG ON THE FLY has been upgraded.</li> <li>• The performance of XML generation has been enhanced.</li> <li>• The _Creatable attribute has been added.</li> <li>• A core dump has been corrected when a profile error occurred.</li> <li>• The AUTHORIZED and HELP values have been tuned up so that the Portal works correctly on the &amp; symbol.</li> </ul>
<b>Interoperability CATIA V5</b>	<ul style="list-style-type: none"> <li>• Version/revision has been set up for V5 MMLs.</li> <li>• The doc/doc links are displayed in the PSN.</li> </ul>
<b>Miscellaneous</b>	<ul style="list-style-type: none"> <li>• HC77248: Call repeated to the trace files tracemax</li> <li>• In the Settings panel, a Units tab has been added. It is possible to modify interactively the active unit of each magnitude described in the CATUNI.dcls file.</li> </ul>
<b>P &amp; O</b>	<ul style="list-style-type: none"> <li>• VPMPeopleImport does not import the P&amp;O structure properly.</li> </ul>
<b>PSN</b>	<ul style="list-style-type: none"> <li>• HC80633: Copy/paste or paste same position</li> <li>• HC78236: Cycles in the PSN tree cannot be deleted</li> <li>• The OPEN IN NEW contextual menu has been added for a VPM document in the PSN.</li> </ul>
<b>Publish Subscribe</b>	<ul style="list-style-type: none"> <li>• Implicit subscriptions do not work for Subscribe with replication</li> </ul>



**Revisoning**

- HC81373: Update version with lowercase

## PTF2 Update

### **REMEMBER to rebuild the user exits!**

User exit sample resides under \$CATIA/code/sample .

### **Declaration Parameters**

- For simple queries to provide only the last version of the resulting parts, see catcdma.VPM.SIMPLE\_QUERY.LASTVERSION.

### **MultiCAD**

### **MML**

### **CATIA V5 / ENOVIA<sub>VPM</sub> Interoperability**

In the *ENOVIA<sub>VPM</sub> User's Guide*, (Advanced Tasks->Interoperability->CATIA V5 / ENOVIA<sub>VPM</sub> Interoperability, in the section "From CATIA V5 to ENOVIA<sub>VPM</sub>") it is stated that assembly constraints cannot be saved. In fact, such constraints CAN be saved.

### **VPM Process/Privilege Security**

Access to VPM is only possible through roles to which the VPM.Login process is granted. A user must therefore have a valid role attached in order to access the application, even though the VPM user is correctly declared in the P&O database. Granting access to VPM.Login process directly to users will not provide them with login capability. Moreover, a role that does not have a privilege granted for that process will not provide login access.

Note : For performance purposes, the privilege on VPM.Login must be defined directly on the process itself ; defining it on a process

group containing the process will not make the role selectable for login.

## Cumulative Fixes PTF2

OS	UB	OS	UB	OS	UB	OS	UB
IX	UB89046	HP	UB89043	SG	UB89054	SU	UB89055
IX	UB89048	HP	UB89041	SG	UB89060	SU	UB89040
IX	UB89038	HP	UB89037	SG	UB89042	SU	UB89036
IX	UB89051	HP	UB89052	SG	UB89050	SU	UB89057
IX	UB89044	HP	UB89061	SG	UB89056	SU	UB89059
IX	UB89062	HP	UB89045	SG	UB89053	SU	UB89035
IX	UB89047	HP	UB89039	SG	UB89058	SU	UB89049

## Free Text PTF2

<b>AFL</b>	<ul style="list-style-type: none"> <li>• Concurrent access to an Action causes loss of information.</li> <li>• Action modification is possible for a non-authorized person.</li> <li>• Secondary ID of Actions limited to 18 characters. It is now possible to enter as many as 50 characters.</li> <li>• An Action is not created when an existing Action has been opened.</li> <li>• An Action promote is not possible if the Action has not been previously stored.</li> <li>• Doc cannot be added to the Action interface.</li> <li>• The abend S0004 occurs when you transfer an Action using USER and ORGANIZATION, and when you select it using P&amp;O.</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• The Unsubscribe function does not work with DB2.</li> <li>• The abend S11 occurs when a timestamp-customized attribute is valuated.</li> <li>• There is a problem with the Select Object function in PSN with V5 documents.</li> <li>• A new version cannot be created.</li> </ul>
<b>CFG</b>	<ul style="list-style-type: none"> <li>• Milestone dates cannot be modified to the future.</li> </ul>

	<ul style="list-style-type: none"> <li>• When effectivities are committed at the same time, the result is corrupted.</li> </ul>
<b>MML</b>	<ul style="list-style-type: none"> <li>• Versioning of MML links</li> </ul>
<b>Multisite</b>	<ul style="list-style-type: none"> <li>• Models stored in DBLFCDM mode are not imported properly.</li> </ul>
<b>User Exits</b>	<ul style="list-style-type: none"> <li>• The APIs OpenGraph and GetEnvironment are missing.</li> </ul>

## PTF3 Update

### WARNING!

### Updating the VPM Administrator is mandatory for VPM1.5 PTF3

#### Why?

New code (orchmod.c) has been added for use by the connection load module OB071USX. Updating the administrator is the only way for this new code to be taken into account.

#### How to update the administrator

Use the tool *catinst* by means of the menu *Configure Step By Step->Create/Update Administrator Environment*.

This updates the file OB071USX in \$CAT\_CUST/code/src with the result that the syntax becomes **FileName.update\_mm:dd:yy**.

You **must** then rename this to **FileName** to regenerate the OB071USX load.

*Example: mv OB071USX.update\_10:11:01 OB071USX*

### WARNING!

### Building the connection load module OB071USX is mandatory for VPM1.5 PTF3

#### Why?

Because new code has been added (see [WARNING! above](#))

#### How to build OB071USX

Prerequisite: The VPM administrator should be updated after having unloaded the PTF3.

There are two ways to do this:

- manual
- automatic

## Manual Method

1. Log on as vpm admin.
2. Initialize VPM:

```
cd env
. VPMWsUser.sh
```

3. Move or remove the old load module OB071USX from \$CAT\_CUST/code/steplib/OS .
4. Create the new load module OB071USX:

```
oruecl
```

=> the OB071USX should have been created in \$CAT\_CUST/code/steplib/OS

## Automatic Method

1. Use the VPMInstall.sh shell with a specific option (-oracle / -db2).

## Error Message

If, when trying to run oruecl to create the OB071USX module, you get an error message such as:

```
cc: "/apps/vpm/vpmadm/code/src/orchmod.c", line 31: error 1705: Function prototypes are an ANSI feature.
```

open the file orchmod.c in the VPM administrator directory \$HOME/code/src and replace lines:

```
int orchmod (char *oper, char *path, char *mode, int *err)
```

with:

```
int orchmod (oper, path, mode, err) char *oper; char *path; char *mode; int *err;
```

and

```
void ormount (char *accmet ,char *madata ,int *lg_madata ,char *dbca )
```

with:

```
void ormount (accmet, madata, lg_madata, dbca) char *accmet; char *madata; int *lg_madata; char *dbca;
```

## MML

## Multisite

### Cumulative Fixes PTF3

OS	UB	OS	UB	OS	UB	OS	UB
IX	UB94941	HP	UB94936	SG	UB94949	SU	UB94939
IX	UB94946	HP	UB94937	SG	UB94954	SU	UB94950
IX	UB94947	HP	UB94938	SG	UB94957	SU	UB94951
IX	UB94952	HP	UB94940	SG	UB94958	SU	UB94956
IX	UB94953	HP	UB94942	SG	UB94959	SU	UB94964
IX	UB94955	HP	UB94943	SG	UB94962	SU	UB94966
IX	UB94960	HP	UB94944	SG	UB94965	SU	UB94967
IX	UB94961	HP	UB94945	SG	UB94969	SU	UB94968
IX	UB94963	HP	UB94948	SG	UB94971	SU	UB94970

## Free Text PTF3

<b>Admin</b>	<ul style="list-style-type: none"> <li>• HC81670: .in files generated on HP are different than those generated on AIX.</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• HC82569: The drawing of the cursor represents a one-way road sign.</li> <li>• HC84774: The viewer specified by <i>Open a graph session</i> cannot be started.</li> </ul>
<b>CFG</b>	<ul style="list-style-type: none"> <li>• HC84980: EPMR: Create config handler API problem</li> <li>• HC82234: Incident I250 : Proposed effectivity and action recreate processes in VPM are not correctly covered by the corresponding privileges.</li> <li>• HC85170: Call the <i>Print part list</i> function. The files in the directory are not listed.</li> </ul>
<b>Interoperability</b>	<ul style="list-style-type: none"> <li>• HC82393: There is no way to redirect /tmp to a larger file system with 3dcom.</li> </ul>
<b>MML</b>	<ul style="list-style-type: none"> <li>• HC84001: Problem synchronize MMLs with the option This Level</li> </ul>
<b>STEP</b>	<ul style="list-style-type: none"> <li>• HC78482: Incident I277: Step export list does not include Parts displayed in the config handler by default.</li> </ul>

## PTF4 Update

### REMEMBER to rebuild the user exits!

User exit sample resides under \$CATIA/code/sample

### Mandatory Modification to be Made to the VPM1.5 PTF4 Level

#### MML

The secondary Action IDs were previously limited to 16 characters. It is now possible to use as many as 50. This involves the attribute PUBLISHER\_OID with the format char(50) in the tables VPMADM.EXP\_SUBSCRIBERS and VPMADM.PUBLISHED\_EVENTS. The bases created with versions prior to VPM 1.4 used the format char(16) for the attribute PUBLISHER\_OID. The scripts update0\_PUBSUB.sql for ORACLE and update0\_PUBSUB.clp for DB2 enable you to make this update (\$CATIA/vpm/reffiles/DBMS/ddl) if required.

**IMPORTANT!**

- This operation drops these two tables and recreates them as well as the associated indexes.
- The data using the format char(16) can no longer be used in the format char(50) and can therefore not be migrated.

**Problem Opening the PSN**

If, when the PSN is opened, there is a coredump with the following error message:

```
Run-time error, libC:  
'delete[]' does not correspond to any 'new[]'
```

you have to create the table *ALTERNATE\_SHAPE* (UPORASHA UPORAGRA for ORACLE, UPDB2SHA UPDB2GRA for DB2) then recreate the PSN library (*libLV0XCDMA*).

This will be corrected in the next PTF.

**Versioning**

When a V5 document saved in VPM is revisioned (and of course also when the Part containing such a document is versioned), remember that for the elements associated with this V5 document (Publications) to be transferred to the new revision, the profile must contain the following:

```
ASSIGN 'FEATURE, FEATSPEC, FEATURES, Publication, ContextInput, Connection ' TO  
"GLOBAL_$LIST_FEATURE_DUPLICATE";
```

**VPMInstall.sh****Correction to the Administrator Update Operation**

1. Log on as root.
2. cd \$CATIA/vpm/code/command (\$CATIA of the PTF4 configuration)
3. Edit the file CplnstFiles.sh replacing:

```
save_dir $CAT_SITE/multisite  
rc4=$?
```

with:

```
save_dir $CAT_SITE/multisite  
rc4=$?  
save_dir $CAT_CUST/code/bin  
rc5=$?
```

and

```
let "rc=( $rc1 || $rc2 || $rc3 || $rc4 )"
```

with:

```
let "rc=( $rc1 || $rc2 || $rc3 || $rc4 || $rc5 )"
```

4. Log on as VPM administrator.
5. cd \$CATIA/vpm/code/command (\$CATIA of the PTF4 code)
6. Run the shell script with the following parameters:  
CpInstFiles.sh \$CATIA\$CAT\_CUST UPDATE
7. To update the VPM environment, run:  
\$CATIA/vpm/code/command/VPMinstall.sh -db2 or -oracle
8. Check to make sure you have the proper PATH set. For example, the command type oruecl should return \$CATIA/code/bin/oruecl \$CATIA/code/bin/oruecl with \$CATIA equal to the PTF4 configuration.

## Corrections to Be Done Prior to VPM Migration

- In the file \$CAT\_CUST/code/bin/Migrate\_Prep\_files\_Oracle.s

replace:



```
VPMADM13|vpmadm13)cat $cpfile|sed -e "s!VPMADM13!$U_VPM_ADMINISTRATOR!g" -e "s!vpmadm13!$U_VPM_ADMINISTRATOR!g">$cpfile1;;
```

with:

```
VPMADM13|vpmadm13)cat $cpfile|sed -e "s!VPMADM13!VPMADM!g" -e "s!vpmadm13!vpmadm!g">$cpfile1;;
```

- In the file \$CAT\_CUST/code/bin/Migrate\_VPPARCUS\_generation.sh

replace:

```
#####
# check if catcdm.c_stream is defined for $CAT_CUST/MIGRATION #
#####
VPPARCUS_PLACE='catpath catcdm.c_stream VPPARCUS'
rc=$?
if [[ $rc -ne 0 ]] ; then
echo "catcdm.c_stream = '$CAT_CUST/MIGRATION' ;" >> $CATMSTR
rc=0
fi
VPPARCUS_PLACE='catpath catcdm.c_stream VPPARCUS'
if [[ $VPPARCUS_PLACE != $CAT_CUST/MIGRATION/VPPARCUS ]] ; then
if [[ $TRACE_VPM -ge 1 ]]; then set -x ; else tput clear ; fi
printf "\n\n"
printf "\t*****\n"
printf "\t* WARNING: *\n"
printf "\t* catpath catcdm.c_stream VPPARCUS does not return *\n"
printf "\t* \"$CAT_CUST/MIGRATION/VPPARCUS\" *\n"
printf "\t* *\n"
printf "\t* Please edit your \"$CATMSTR\" file and add the following: *\n"
printf "\t* catcdm.c_stream = '$CAT_CUST/MIGRATION' ;\n"
printf "\t* *\n"
printf "\t* in order to use the proper command streams files. *\n"
printf "\t* *\n"
printf "\t*****\n"
press_enter
rc=1
return $rc
```

fi

with:

```
#####
# check if catcdm.c_stream is defined for $CAT_CUST/MIGRATION #
#####
VPPARCUS_PLACE='catpath catcdm.c_stream VPPARCUS'
if [[ $VPPARCUS_PLACE != $CAT_CUST/MIGRATION/VPPARCUS ]] ; then
if [[ $TRACE_VPM -ge 1 ]]; then set -x ; else tput clear ; fi
printf "\n\n"
printf "\t*****\n"
printf "\t* WARNING: *\n"
printf "\t* catpath catcdm.c_stream VPPARCUS does not return *\n"
printf "\t* \$CAT_CUST/MIGRATION/VPPARCUS *\n"
printf "\t* *\n"
printf "\t* The following will be added to your \$CATMSTR file : *\n"
printf "\t* *\n"
printf "\t* erase catcdm.c_stream ;\n"
printf "\t* catcdm.c_stream = '$CAT_CUST/MIGRATION' ;\n"
printf "\t* *\n"
printf "\t* in order to use the proper command streams files. *\n"
printf "\t* *\n"
printf "\t*****\n"
press_enter
echo "erase catcdm.c_stream ;" >> $CATMSTR
echo "catcdm.c_stream = '$CAT_CUST/MIGRATION' ;" >> $CATMSTR
fi
```

## Cumulative Fixes PTF4

OS	UB	OS	UB	OS	UB	OS	UB
IX	UB96033	HP	UB96064	SG	UB96043	SU	UB96074
IX	UB96030	HP	UB96061	SG	UB96058	SU	UB96067
IX	UB96065	HP	UB96060	SG	UB96024	SU	UB96068
IX	UB96038	HP	UB96062	SG	UB96063	SU	UB96039

IX	UB96053	HP	UB96044	SG	UB96029	SU	UB96076
IX	UB96023	HP	UB96073	SG	UB96027	SU	UB96066
IX	UB96021	HP	UB96052	SG	UB96040	SU	UB96054
IX	UB96046	HP	UB96059	SG	UB96031	SU	UB96075
IX	UB96022	HP	UB96056	SG	UB96032	SU	UB96057
IX	UB96047	HP	UB96034	SG	UB96055	SU	UB96045
IX	UB96049	HP	UB96048	SG	UB96036	SU	UB96070
IX	UB96025	HP	UB96072	SG	UB96035	SU	UB96071
IX	UB96028	HP	UB96050	SG	UB96042	SU	UB96069
IX	UB96041	HP	UB96037	SG	UB96026	SU	UB96051

## Free Text PTF4

<b>AFL</b>	<ul style="list-style-type: none"> <li>• HC84163: When an attempt is made to promote an Action from the <i>In Work</i> status VPM terminates abnormally and the Action data is broken.</li> <li>• HC84395: There is no update of the CATASS link with a Creation/Cut function on the same Action.</li> <li>• HC85667: After recreating a corrupted action, the links are lost.</li> <li>• HC86407: There is a VPM abend during a New Query in an object Action.</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• HC57244: There is a VPM abend after a cut and paste operation when the model has been translated.</li> <li>• HC80939: The <i>Where Used</i> function does not work correctly.</li> <li>• HC82490: It is impossible to create/duplicate if one of the IDs (S_*) is a data attribute.</li> <li>• HC82613: There is no scrollbar in the choice list of the Advanced Query.</li> <li>• HC84015: There is a problem with the PDF encrypted file.</li> <li>• HC84213: View access by means of a user exit</li> <li>• HC84308: There is a problem on the DLFM server when you save any document in VPM.</li> <li>• HC83870: It is impossible to update a CatPart.</li> <li>• HC85102: There is a problem when updating the document in VPM.</li> </ul>

	<ul style="list-style-type: none"> <li>• HC85121: The ITFCHECK result is not returned to VPM / database.</li> <li>• HC84543: There is an error with a duplicate function.</li> <li>• HC85947: Undeclared parameters are issued on the UNIX terminal when a model is loaded into CATIA from the VPMA window.</li> <li>• HC85846: The cgr is not updated after modification of a document stored in datalinks.</li> <li>• HC87178: Starting the DMU Navigator from the PSN results in an abend.</li> </ul>
<b>CFG</b>	<ul style="list-style-type: none"> <li>• HC85229: The proposed effectivity does not allow a complex effectivity -&gt; CATCDMA.VPM.COMPLEX_PROPOSED_EFF (logical)</li> <li>• HC84553: The VPM Configuration Handler Change Ownership fails.</li> <li>• HC84562: The info link effectivity displays m2-&gt;m1 when m1-&gt;m2 is expected.</li> <li>• HC85371: The effectivity is corrupted after replacing a Part version.</li> <li>• HC86230: Part-Options is incorrectly displayed in the PSN when milestones are defined covering the range of the affected Parts.</li> <li>• HC85746: There is an abend S06 with a proposed effectivity function.</li> <li>• HC85874: Milestones are lost after versioning a Part.</li> <li>• There is effectivity corruption after a new Part version.</li> <li>• Demote on configurable Part until delete without unset configurable</li> <li>• Configuration analysis on a configurable Part without effectivities on sub-assembly</li> <li>• Hours / minutes / seconds on effectivities are not taken into account during an expand.</li> <li>• Display milestone in Child / Parent Analysis</li> </ul>
<b>Publish/Subscribe</b>	<ul style="list-style-type: none"> <li>• HC85756: The SUB/PUB function with the event write with like consequence a replicate nook</li> <li>• The MODEL.write event is published when doing a Catia File/Save.</li> <li>• New events PART/MODEL/DOCUMENT/.Rename on rename function -&gt; update5_PUBSUB.sql/clp must be used</li> </ul>
<b>CDMA</b>	<ul style="list-style-type: none"> <li>• HC83989: There is a security problem with a CDMA profile for RENAME and DELETE in the PSN.</li> <li>• HC85688: Launching 4D Navigator from the PSN</li> </ul>
<b>Multisite</b>	<ul style="list-style-type: none"> <li>• HC85881: The function enabling the import/export of a process group does not work.</li> </ul>

	<ul style="list-style-type: none"> <li>• HC87103: The column C_SITE_RESPONSIBLE is created on a non-multisite environment.</li> <li>• Replication tools for Publish/Subscribe (VX0RPELP)</li> <li>• Possibility to modify User / Organization when performing a transfer to a site</li> <li>• Transfer To Site is inhibited if the data does not belong to the user (the process VPM.BOM.UpdateOwnership is taken into account).</li> </ul>
<b>P&amp;O</b>	<ul style="list-style-type: none"> <li>• HC83383: The function Paste Quantity in the contextual menu of the Part is available although the process CeateRelation is not granted in P&amp;O.</li> <li>• P&amp;O clusters and Pub/sub clusters : display problem for "&lt;=" comparator</li> <li>• P&amp;O export : Process group import / export (VPMPeopleImport)</li> </ul>
<b>PSN</b>	<ul style="list-style-type: none"> <li>• HC79003: There is a memory leak in the VPM PSN expansion.</li> <li>• HC79232: The Part whose data does not exist counts by computing the number of children.</li> <li>• HC80758: There is a duplicated representation of a new document in the PSN after the association of a new document.</li> <li>• HC87215: There is a response time problem during a graph expand.</li> <li>• HC87625: The PSN cut and paste does not work.</li> <li>• The PSN does not close after File / Close / Save changes.</li> <li>• Opening a .psn file with options other than dynamic + all instances does not work.</li> <li>• The privilege BOM.ModifyRelation is taken into account when C_COMMENT is edited in the info-link panel.</li> </ul>
<b>STEP</b>	<ul style="list-style-type: none"> <li>• New option - mod 2 into psnmigex.sh</li> <li>• There is a coredump when exporting (PDM_SCHEMA+config) a configurable part without a child part (CATASS=0).</li> </ul>
<b>APIs</b>	<ul style="list-style-type: none"> <li>• CATDMUsrInstance::ReplaceChild()</li> <li>• CATDMUsrInstance::AddChild()</li> </ul> <p>Note that the arguments for these two APIs have changed.</p>

## PTF5 Update

**REMEMBER to rebuild the user exits!**

User exit sample resides under \$CATIA/code/sample

## Building the BOM User Exit Library (libLV0XUSR.\*)

To build the BOM user exit library (libLV0XUSR.\*), go into the shell makeLV0XUSR.sh and replace:

```
optI="$optI -I$VPM/PublicInterfaces"
```

with:

```
optI="$optI -I$VPM/PublicInterfaces -I$CATIA/code/include"
```

## Potential Performance Enhancement (VPM1.5 PTF5)

Impacted Functionality	Performance Enhancement
<b>Expand PSN Tree</b>	<ul style="list-style-type: none"> <li>• almost <b>20%</b> in CPU time on the VPM client, between VPM1.3 PTF13 and VPM1.5 PTF5</li> <li>• almost <b>40%</b> in CPU time on the VPM server, between VPM1.3 and VPM1.5</li> <li>• on memory leaks: as much as <b>80%</b> has been gained between VPM1.3 and VPM1.5</li> <li>• <b>30%</b> in total memory used by the VPM process, on the VPM client, between VPM1.3 and VPM1.5</li> </ul>
<b>Expand PSN Web Tree on NT</b>	<ul style="list-style-type: none"> <li>• an improvement of almost <b>70%</b> in CPU time on the NT client, on VPM1.5 by means of a new variable</li> </ul>
<b>Open in DMU when loading models into DMU</b>	<ul style="list-style-type: none"> <li>• almost <b>60%</b> in CPU time on the VPM client, between V5R6SP4 and V5R7SP6 or V5R8GA</li> </ul>

To obtain the enhancements described above, do as follows:

### Expand PSN Tree in VPM1.5 PTF5

## Work with the dictionary in memory

1. Edit the file CATCDM.dcls by replacing the line:

### DB2

```
catcdm.DBCONN.DB2.MODULE = 'JD061DIB'  
with:  
catcdm.DBCONN.DB2.MODULE = 'JD062DIM' ;
```

### ORACLE

```
catcdm.DBCONN.ORACLE.MODULE = 'JD061DIB'  
with:  
catcdm.DBCONN.ORACLE.MODULE = 'JD062DIM' ;
```

## Customize your database to add the C\_COUNT attribute

Expand queries on leaf Parts and on non-configured Parts have been improved. A system column is added to the part\_list table: C\_COUNT (type varchar). The column format is: 'c:c:'

The first c takes the value 'Y' if the Part has at least one CATASS link, 'N' if there is no CATASS link or 'U' if unknown.

The second c takes the value 'Y' if the Part is configured, 'N' if not configured or 'U' if unknown.

Database triggers to update this column must be created using the provided update\_EXT sql script.

**Step 1:** To update the tables, play, for each environment, the update\_EXT script sql:

### DB2

1. In the DB2 script  
\$HOME/InstallVPM/reffiles/DBMS/ddl/MS\_conf\_migr\_DB2.clp  
replace VPMADM with the VPM Administrator value.
2. Run the DB2 script  
\$HOME/InstallVPM/reffiles/DBMS/ddl/MS\_conf\_migr\_DB2.clp
3. Replace the DB2 script update\_EXT.clp (in  
\$HOME/InstallVPM/reffiles/DBMS/ddl of the VPM administrator)

with the following:

```

-----
-- (c) Dassault Systemes 2002
-----
-- Mandatory : NO
--
-- update_EXT.clp
--
-- Description :
-- expand PSN Graph performance improvement
-- Alter VPMENV.PART_LIST ( add column C_COUNT )
-- Create trigger VPMENV.EXT_AFTER_INSERT on VPMENV."$EXT"
-- Create trigger VPMENV.EXT_AFTER_DELETE on VPMENV."$EXT"
-- Update C_COUNT of VPMENV."PART_LIST"
-- Create trigger VPMENV.CI_AFTER_INSERT on "VPMADM"."configuration_item_"
-- Create trigger VPMENV.CI_AFTER_DELETE on "VPMADM"."configuration_item_"
-- Update C_COUNT of VPMENV."PART_LIST"
--
--
-- VPM Level : VPM1.5 PTF5 and above
--
--
--
-- DB2 Only
--
-- C_COUNT column internal VPM usage
--
-- CHAR [1] -> $EXT $TYPE= 'CATASS'
-- CHAR [3] -> CONFIG_ITEM
--
alter table VPMENV.PART_LIST
add C_COUNT VARCHAR(30) default 'U:U:U:UUUUUUUU:UUUUUUUU';
-- ===== INSERT EXT
=====
drop trigger VPMENV.EXT_AFTER_INSERT;
create trigger VPMENV.EXT_AFTER_INSERT
after insert on VPMENV."$EXT"
referencing new as mynew
for each row mode db2sql
update VPMENV.part_list set "C_COUNT" = 'Y' || substr ( "C_COUNT" , 2)
where "$COID" = mynew."$COID" AND mynew."$TYPE" = 'CATASS';
-- ===== DELETE EXT

```



```

=====
drop trigger VPMENV.EXT_AFTER_DELETE;
create trigger VPMENV.EXT_AFTER_DELETE
after delete on VPMENV."$EXT"
referencing old as myold
for each row mode db2sql
update VPMENV.part_list set "C_COUNT"= 'U' || substr ( "C_COUNT" , 2)
where "$COID" = myold."$COID" AND myold."$TYPE" = 'CATASS';
-- ===== UPDATE
=====
-- ===== UPDATE FOR
'Y'=====
update VPMENV.part_list part
set part."C_COUNT" = 'Y' || substr ( part."C_COUNT" , 2)
where ( ( select count(1) from VPMENV."$EXT" ext where ext."$COID" = part."$COID"
and ext."$TYPE" = 'CATASS' ) > 0 ) ;
-- ===== UPDATE FOR 'N'
=====
update VPMENV.part_list part
set part."C_COUNT"= 'N' || substr ( part."C_COUNT" , 2)
where ( ( select count(1) from VPMENV."$EXT" ext where ext."$COID" = part."$COID"
and ext."$TYPE" = 'CATASS' ) = 0 );
-- CONFIG_ITEM
-- ===== INSERT CI
=====
drop trigger VPMENV.CI_AFTER_INSERT;
create trigger VPMENV.CI_AFTER_INSERT
after insert on VPMADM."configuration0001_"
referencing new as mynew
for each row mode db2sql
update VPMENV.part_list
set "C_COUNT" = substr("C_COUNT",1,2) || 'Y' || substr ("C_COUNT",4)
where "$COID" = mynew."$COID" AND mynew."CAENV" = 'VPMENV';
-- ===== DELETE CI
=====
drop trigger VPMENV.CI_AFTER_DELETE;
create trigger VPMENV.CI_AFTER_DELETE
after delete on VPMADM."configuration0001_"
referencing old as myold
for each row mode db2sql
update VPMENV.part_list
set "C_COUNT" = substr("C_COUNT",1,2) || 'U' || substr ("C_COUNT",4)
where "$COID" = myold."$COID" AND myold."CAENV" = 'VPMENV';

```

```

-- ===== UPDATE
=====
-- ===== UPDATE FOR
'Y'=====
update VPMENV.part_list part
set "C_COUNT" = substr("C_COUNT",1,2) || 'Y' || substr ("C_COUNT",4)
where ( ( select count(1) from VPMADM."configuration0001_" ci where ci."$COID" =
part."$COID"
and ci."CAENV" = 'VPMENV' ) > 0 ) ;
-- ===== UPDATE FOR 'N'
=====
update VPMENV.part_list part
set "C_COUNT" = substr("C_COUNT",1,2) || 'N' || substr ("C_COUNT",4)
where ( ( select count(1) from VPMADM."configuration0001_" ci where ci."$COID" =
part."$COID"
and ci."CAENV" = 'VPMENV' ) = 0 );

```

4. Replace VPMENV with the environment name and VPMADM with the VPM Administrator name.
5. Run `update_EXT.clp`.

## Oracle

1. In the Oracle script  
`$HOME/InstallVPM/reffiles/DBMS/ddl/MS_conf_migr_Oracle.sql` replace  
VPMADM with the VPM Administrator value.
2. Run the Oracle script  
`$HOME/InstallVPM/reffiles/DBMS/ddl/MS_conf_migr_Oracle.sql`
3. Replace VPMENV with the environment name and VPMADM with the  
VPM Administrator value.
4. Run the Oracle script `update_EXT.sql` which is in  
`$HOME/InstallVPM/reffiles/DBMS/ddl` of the VPM administrator.

**Step 2:** To set the declaration parameter, add the following to your CATIA declaration file:

```
CATCDMA.VPM.EXPAND.C_COUNT : LOGICAL;
```

```
CATCDMA.VPM.EXPAND.C_COUNT = TRUE;
```

**WARNING!** Using the setting `CATCDMA.VPM.EXPAND.C_COUNT = TRUE;` in PTF5 has a restriction. See [Restriction When Using CATCDMA.VPM.EXPAND.C\\_COUNT](#).

## Checking Statistics on the Database

To check statistics on the database, the DB2 administrator must do as follows:

1. Connect to the database.
2. Run the command:

```
db2 reorgchk update statistics on table all.
```
3. Look at the result column REORG.
4. If the value is `**` or `***`, table reorganization is mandatory. Here is an example of the command you must then run:

```
reorg table VPMADM."configuration0001_"
```

## Impact on Performance When Expanding

As of VPM1.5 PTF5, for optimum performance when expanding, the following functionalities are no longer available by default. They must be explicitly activated by changing the default value (false) to true i.e. they should only be implemented if you judge it necessary for your application given the negative consequences on performance.

1. To configure the models of a Part the following variable must be added to the declaration file:

```
CATCDMA.VPM.EXPAND.CONFIGURABLE_REPS : logical;  
CATCDMA.VPM.EXPAND.CONFIGURABLE_REPS = true;
```
2. To configure the features of a Part the following variable must be added to the declaration file:

```
CATCDMA.VPM.EXPAND.CONFIGURABLE_FEATURES : logical;  
CATCDMA.VPM.EXPAND.CONFIGURABLE_FEATURES = true;
```

**IMPORTANT!** Be aware of the following behavior in feature-compliant environments:

- the default value (false) means that there is no database access hence better performance but that when expanded, all models, **whether they have features or not**, are displayed with an activator button. This will be modified in a future PTF.
- If the default value is changed to true the database is accessed with the resulting impact on performance and models are displayed with an activator button only when they have features.

## Expand PSN Web Tree in VPM1.5 PTF5

### On your UNIX Portal Server

1. Edit the file <Path Installation Server>/docs/java/CDMAConfiguration.properties by adding the following line:  
XMLExpandRequired=true

### Load in DMU from VPM

1. Set the variable ReviewMode for CATIA V5R7SP6 and CATIA V5R8.
2. Set the variable Optim3DIC=1 for CATIA V5R8.

## Restriction When Using CATCDMA.VPM.EXPAND.C\_COUNT

When the declaration parameter `CATCDMA.VPM.EXPAND.C_COUNT` is set to `TRUE`, there is an error when you open graph sessions in static mode. Graph expansion is not possible. To open a graph session in static mode you must make sure the value `FALSE` is used. Be aware however that this prevents the gain in performance you can expect when using `CATCDMA.VPM.EXPAND.C_COUNT = TRUE`. This will be corrected for PTF6.

## DOCUMENT Table

The DOCUMENT table must exist in every environment even if it stays empty.

For optimum performance for the PSN expand, the DOCUMENT select is hard-coded.

If the DOCUMENT table does not exist, not only will the PSN expand not work but even before that, the PSN library cannot be built.

## Volume Filter

Inappropriate behavior may occur if you open the Volume Filter panel when the PSN tree is already expanded. To avoid this you can either:

- open the Volume Filter panel before expanding the root node or

- add the following lines to your declaration file:

```
CATCDMA.VPM.ALWAYS.SET.VOLUME : logical;  
CATCDMA.VPM.ALWAYS.SET.VOLUME = true;
```

This problem will be corrected in the next PTF.

## MBCS Support in the PSN

### PSN and Mixed Characters

To support MBCS (Mixed Characters) in the PSN (Japanese/Chinese and alphanumeric/Latin characters), add the following variable to the file `YOUR.env`:

```
export SBCS_DBCS_Text = 1
```

IMPORTANT! To optimize performance, this variable is not set by default.

### Visualizing Japanese/Chinese Characters in the 3d com/VPM Portal

To visualize the VPM columns set natively in DBCS (Japanese/Chinese characters):

1. Go into the file `CDMAConfiguration.properties` located in `$install_path/docs/java` .
2. Change the line:

```
NLSEnvironmentRequired = false
```

to:

```
NLSEnvironmentRequired = true
```

## Solaris 8 Support for VPM / CATIAV4 / CATIAV5

### Opening Catalogs in CATIA V5

As of VPM1.5 PTF5, there is a radio button in *File->Settings->Open Model* allowing you to select the mode to be used to open catalogs (edit or browse) in CATIA V5. Note that this only works with CATIA V5R8.

## Simple Queries

For purposes of incident report correction the behavior of the Simple Query combo has slightly changed. Now, once you have selected the appropriate string in the pull-down list, click *Search now* to run the request.

## Integration of VPM - CATIA V5R7/V5R8 on IRIX

### IRIX Client

CATIA V5 is a program built with the N32 compilation option under IRIX (MIPSpro C++ 32-bit compiler) for better performance whereas ENOVIA<sub>VPM</sub> is an O32 program (ucode C++ 32-bit compiler). The same Oracle DB client (or, to be more precise, the Oracle client libraries) can therefore not be referenced simultaneously by both programs. It is therefore necessary to:

- use an O32 DB client for ENOVIA<sub>VPM</sub> (Oracle 806, for example)
- use a N32 DB client for CATIA V5 (Oracle 817, for example).

### Solution

As of CATIA V5R7, the prerequisite Oracle level is 817 (N32). The level supported by VPM is O32. This means that you must have two Oracle clients (O32 and N32) on the same IRIX client machine for the integration of VPM - CATIAV5. You must make sure beforehand that the connection to the server base (VPM15 is referenced in *tnsnames.ora*) is working satisfactorily using Oracle SQL/Plus:

```
sqlplus system/manager@VPM15
```

When CATIA V5 is launched from VPM, the V5 environment shell is executed after `VPMDBEenv.sh`. Certain variables can therefore be redefined and then be taken into account when CATIA V5 is next launched. This applies, for example, to the following environment variables that must point to the N32 Oracle client:

- ORACLE\_HOME
- TNS\_ADMIN
- ORA\_NLS33

- PATH  
and, in particular:
- LD\_LIBRARYN32\_PATH (\$ORACLE\_HOME/lib32).

Moreover, the variables ORACLE\_SID et TWO\_TASK reference the server instance.

### Example

The VPMDB15 Oracle server instance is running on the AIX machine *ibmdsy*. On the client machine *sgidsy* the following is installed:

- the VPM 1.5 code
- CATIA V5R8
- two Oracle clients:
  - an 806 Oracle client whose \$ORACLE\_HOME is */app/ora806*
  - an 817 Oracle client whose \$ORACLE\_HOME is */app/ora817*

The file *tnsnames.ora*, shared by these two clients, is located in the directory */app/oracle*. It references the VPM15 server instance. Connections via *sqlplus* using an alias run on both Oracle clients.

Variables are always redefined in the CATIA V5 environment script.

### VPMDBEnv.sh

```
export ORACLE_SID=VPM15
export TWO_TASK=VPM15
export ORACLE_HOME=/app/ora806
export PATH=$PATH:/app/ora806/bin
```

### CATIA.V5R8.B08.sh

```
LD_LIBRARYN32_PATH=/app/ora817/lib32:$ LD_LIBRARYN32_PATH
ORACLE_SID=VPM15
TWO_TASK=VPM15
ORACLE_HOME=/app/ora817
PATH=/app/ora817/bin:$PATH
```

TNS\_ADMIN=/app/oracle  
 ORA\_NLS33=/app/ora817/ocommon/nls/admin/data

## New Security Process

Application	Function	Data Group	Command	Engineer	Manager	Administrator
VPM	BOM	x	ChangeModelUUID	x	x	x

## Cumulative Fixes PTF5

OS	UB	OS	UB	OS	UB	OS	UB
IX	UB97001	HP	UB96995	SG	UB97017	SU	UB97005
IX	UB96988	HP	UB97003	SG	UB97018	SU	UB97008
IX	UB96994	HP	UB97004	SG	UB97013	SU	UB96996
IX	UB96999	HP	UB96991	SG	UB97009	SU	UB97007
IX	UB96990	HP	UB96992	SG	UB97016	SU	UB97010
IX	UB97000	HP	UB96989	SG	UB97014	SU	UB96998
IX	UB96997	HP	UB96987	SG	UB97012	SU	UB97011

## Free Text PTF5

<b>Admin</b>	<ul style="list-style-type: none"> <li>• HC88765: A UNIX user name starting with a numeric character results in an error message and VPM does not start.</li> <li>• HC86936: After starting VPM, Start Tools/Execute/CATIA Mouse behavior set up by CATIA becomes invalid. -&gt; Now there is a new setting file for VPM: xxxxxVPM.user</li> <li>• HC88523: Undocumented VPM profile variables global_*</li> <li>• HC88760: After adding VPM ENV, abend S0006 occurs when a model is loaded</li> </ul>
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	into 4DNAV.
<b>AFL</b>	<ul style="list-style-type: none"> <li>• HC86426: In the Action panel, an insufficient message appears when a subscribe selection is made.</li> <li>• HC88614: Running AT0EXPND results in the abend RC=139</li> <li>• HC86994: Customize the Action Status in AP203.Vaction (with DBCS) but this only results in a crash.</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• HC85102: There is a problem when updating the document in VPM.</li> <li>• HC87463: The CATRACE files are empty on the Sun OS.</li> <li>• HC88067: When a VPM session is opened the command CATCDMA -C VPMENV generates an error: ERROR CONNECT SQLCODE -1403.</li> <li>• HC85744: On Sun, there is an abend when the Add Object function is used with more than 36 Parts.</li> <li>• HC88195: There is a problem with a function duplicate on a Part with a V5 document.</li> <li>• HC86184: When deleting Parts and/or models, error 110 is not explicit.</li> <li>• HC86056: MBCS works on the VPM Access Panel but not in the PSN. To activate this functionality, use: export SBCS_DBCS_Text=1</li> <li>• HC88198: VPM abends S0004 and S0011 occur when changing the positioning in CATIA.</li> <li>• HC84774: The viewer specified by <i>Open a graph session</i> cannot be started.</li> <li>• HC86215: When only one side on "Between option" is selected the whole instance is displayed.</li> <li>• HC88119: When Tools/Transfer Lock is selected, an error occurs.</li> <li>• HC88262: The checked-out user name should appear on a warning panel.</li> <li>• HC88284: The data with associated to associate/new document is not displayed.</li> <li>• HC88286: The defined column cannot be displayed in the Create &amp; Save panel.</li> <li>• HC88489: The zone filter does not work with filter by identification.</li> <li>• HC88203: VPM crashes at getvalue when the value has 24 characters: segmentation fault coredump and RC 139</li> <li>• HC73411: A search for all components in the PSN cannot be interrupted.</li> <li>• HC88472: The rename operation fails resulting in <i>Object already exists</i> in spite of the fact that the model is the only one for the Part.</li> <li>• HC71777: The C_REVISION value in the Create &amp; Save panel can be modified.</li> <li>• HC82805: Search with field</li> </ul>

<b>CFG</b>	<ul style="list-style-type: none"> <li>• HC88559: Adding a comment to a link in a configuration results in the model being displayed twice.</li> <li>• HC85844: It is possible to delete a category although it is contained in a rule.</li> <li>• HC85746: Abend S06 occurs with a proposed effectivity function.</li> <li>• HC86406: Abend S011 occurs in the menu list of Entity Instance.</li> <li>• HC86056: The name is displayed garbage on the Define effectivity windows of Config.</li> <li>• HC87120: Replacing several Parts with an effectivity produces an error and results in garbage.</li> </ul>
<b>MML</b>	<ul style="list-style-type: none"> <li>• HC88077: An abend occurs before the MML graph has opened.</li> </ul>
<b>Multisite</b>	<ul style="list-style-type: none"> <li>• HC87939: In P&amp;O, the replication of profiles does not work.</li> <li>• HC88344: The Import/Export function for a public process does not work in the P&amp;O.</li> <li>• HC88343: Replication of the privileges associated with the user does not work.</li> </ul>
<b>PSN</b>	<ul style="list-style-type: none"> <li>• HC76567: Available memory space gradually decreases when saving a .pst file.</li> <li>• HC76920: Available memory space gradually decreases when opening a .psn file.</li> <li>• HC77097: Locate First Selected Part does not work. Message: Not any localized item</li> <li>• HC87824: Environment names containing the underscore character 'VW_E' results in error messages when expanding a PSN.</li> <li>• HC89109: Expansion of the ASM PSN with more than one Part is no longer possible in PTF4 in an environment containing the underscore character.</li> </ul>
<b>STEP</b>	<ul style="list-style-type: none"> <li>• HC84648: There is a VPM / STEP transfer problem.</li> </ul>

## PTF6 Update

### REMEMBER to rebuild the user exits!

User exit sample resides under \$CATIA/code/sample

### New Object Deletion Commands for P & O Data Import/Export

As of VPM 1.5 PTF 6, the People & Organization import/export utility supports a new set of commands for deleting objects.

## Import

### Language Keywords

The following keywords were added to the standard language keywords to define the syntax of deletion commands:

Keyword	Meaning
%SITE	a SITE object
%ORG	an ORGANIZATION object
%PERSON	a PERSON object
%ROLE	a ROLE object
%PROFILE	a PROFILE object
%PROCESS	a PROCESS object
%DATAGROUP	a DATAGROUP object
%PRIVILEGE	a PRIVILEGE object

### Language Syntax Rules

In the following syntax rule table, the special symbols are:

{ } stands for a list of possible values

| options value separator

[ ] stands for optional field

\$ can be used to specify a null value

, attribute separator (can be modified using the \*separator keyword)

Keyword	Syntax
%SITE	id
%ORG	id
%PERSON	id
%ROLE	name,org
%PROFILE	project,environment,name
%PROCESS	PROCESSGROUP,name,\$
%PROCESS	EXTERN,function,command
% DATAGROUP	ORG,id
% DATAGROUP	USER,id
% DATAGROUP	CLUSTER,name
%PRIVILEGE	PERSON,id,\$,process,data_in,data_out
%PRIVILEGE	ROLE,name,org_id,process,data_in,data_out

### Import Example

Here is a sample import file usable as input to the import tool:

```
*mode REPLACE
*ddl EXECUTE GENERATE
*separator ,
```

```
*null $

// Deletion of privilege
%PRIVILEGE ROLE;ROLETST;ORGTST;Extern.FunctionTST.CommandTST;PGTST;$

// Deletion of process group "PGTST",
// and process "Extern.FunctionTST.CommandTST"
%PROCESS ProcessGroup;PGTST;$
%PROCESS Extern;FunctionTST;CommandTST

// Deletion of data group defined for user "USRTST",
// and cluster "CLUSTERTST"
%DATAGROUP USER;USRTST
%DATAGROUP CLUSTER;CLUSTERTST

// Deletion of role "ROLETST[ORGTST]"
%ROLE ROLETST;ORGTST

// Deletion of person "USRTST"
%PERSON USRTST

// Deletion of organization "ORGTST"
%ORG ORGTST

// Deletion of site "SITETST"
%SITE SITETST

// Deletion of profile "VPMENVTST" defined for environment "VPMENV"
%PROFILE CATSAMPLE;VPMENV;VPMENVTST
```

## Executing the Import Command

Files containing deletion commands are managed like regular files by the `VPMPeopleImport` utility. For details, see the *ENOVIA<sub>VPM</sub> Installation & Administration Guide*.

## Export

`VPMPeopleImport` does not support the generation of deletion commands as it does for standard creation/update commands. When the

import/export mechanism is used for replicating People & Organization structures between several VPM installs, it is the responsibility of the VPM administrator to create and complete the file containing the deletion commands, according to the corresponding delete operations he or she performs in the graphical administration tool VPMPeopleEdit.

## Applicative Containers

To manage additional DMU data in VPM you require the table DOC\_CONTAINER. In addition, the following actions described below must be performed for each environment on the VPM side. Only three declaration parameters are needed on the V5 side and no extra mapping is necessary. Also, a repository must be defined for long field storage (see the example of the VPMENV profile below). The prerequisite VPM and CATIA/DMU levels required for applicative containers are 1.5 PTF6 and V5R8SP2 respectively.

### Structure of the Table VPMENV.DOC\_CONTAINER

\$COID	CHAR(8)
\$COMPID	CHAR(8)
S_NAME	VARCHAR(80)
S_TYPE	VARCHAR(80)
S_UID	VARCHAR(30)
C_REVISION	CHAR(3)
C_MATURITY	CHAR(16)
C_VERSION	INTEGER
C_COMPID_DATA	CHAR(8)
C_COMPNAME_DATA	VARCHAR(18)
C_SOFT_VER	VARCHAR(80)
C_LAST_REPOSITORY	VARCHAR(80)
C_INTFORM	INTEGER
C_TYPE_REP	VARCHAR(80)
C_RESPONSIBLE	CHAR(8)
C_CREATE	TIMESTAMP
C_CREATE_USER	CHAR(8)
C_LASTMOD	TIMESTAMP
C_LASTMOD_USER	CHAR(8)
C_ORG_RESPONSIBLE	CHAR(10)

## Creating the Table VPMENV.DOC\_CONTAINER

We recommend you use the general PTF migration procedure described in VPM MIGRATION. In the file *\$CATIA/vpm/reffiles/DBMS/VpmMigrationHistory.txt* you will find the command streams to use for migrations upto PTF6. To migrate from PTF5 to PTF6, the command streams VPINSTS101 and VPINSTS102 (delivered in the directory *\$CATIA/vpm/reffiles/DBMS*) are needed for creation and grant purposes regarding the table *VPMENV.DOC\_CONTAINER* and the additions to the CDM data dictionary.

### VPMENV Profile

The lines below must be present in your VPM profile. This is an example of the PVPMENTV file delivered in the directory *\$CATIA/vpm/reffiles/DBMS*:

```
ASSIGN 'SELECT S_NAME, S_TYPE, C_REVISION, C_MATURITY, C_LASTMOD FROM DOC_CONTAINER' TO
"GLOBAL_$RESULTS_CONTAINER";
```

```
ASSIGN 'SELECT S_PART_NUMBER, S_CHG_NUM, S_TYPE, PART_DESCRIPTION, C_PART_VERSION, C_MATURITY,
C_RESPONSIBLE, C_LASTMOD FROM PART_LIST;
SELECT S_NAME, S_TYPE, C_REVISION, C_LASTMOD FROM DOC_CONTAINER' TO "GLOBAL_$QUERY_CONTAINER";
```

```
ASSIGN 'SELECT S_PART_NUMBER, S_CHG_NUM, S_TYPE, C_PART_VERSION, C_MATURITY, PART_DESCRIPTION,
C_LASTMOD FROM PART_LIST;
SELECT S_NAME, S_TYPE, C_REVISION, C_MATURITY, C_LASTMOD FROM DOC_CONTAINER' TO
"GLOBAL_$RESULT_CONTAINER";
```

```
ASSIGN 'PART, MODEL, DOCUMENT, CONTAINER, PLOT, CAD' TO "GLOBAL_$LIST_QUERIES";
```

```
ASSIGN 'PART_LIST, CATIA_MODEL, DOCUMENT, DOC_CONTAINER, CATIA_PLOT, DOCCAD' TO "GLOBAL_$LIST_DELETE";
```

```
ASSIGN 'SYNONYM("Containers")' TO "GLOBAL_$FORMAT_DOC_CONTAINER";
ASSIGN 'SYNONYM("Name")' TO "GLOBAL_$FORMAT_DOC_CONTAINER.S_NAME";
ASSIGN 'SYNONYM("Type")' TO "GLOBAL_$FORMAT_DOC_CONTAINER.S_TYPE";
ASSIGN 'SYNONYM("Rev")' TO "GLOBAL_$FORMAT_DOC_CONTAINER.C_REVISION";
ASSIGN 'SYNONYM("Maturity")' TO "GLOBAL_$FORMAT_DOC_CONTAINER.C_MATURITY";
ASSIGN 'SYNONYM("Date")' TO "GLOBAL_$FORMAT_DOC_CONTAINER.C_LASTMOD";
```

```

ASSIGN 'SELECT S_PART_NUMBER, PART_DESCRIPTION, C_PART_VERSION FROM PART_LIST;
SELECT C_NICKNAME, S_TYPE_REP, C_REVISION FROM CATIA_MODEL;
SELECT S_TYPE_REP, S_NAME, D_PATH, C_REVISION, C_MATURITY FROM DOCCAD;
SELECT S_FORMAT, S_NAME, D_PATH, C_REVISION, C_MATURITY FROM DOCUMENT;
SELECT S_NAME, S_TYPE, C_REVISION, C_MATURITY FROM DOC_CONTAINER;
SELECT C_NAME, DESCRIPTION, CURR_VAL, D_PATH, C_MATURITY FROM FEATSAMP' TO "GLOBAL_$GRAPH_NAVIG";;

```

```

ASSIGN 'AR' TO "GLOBAL_$FROZENMATURITY_DOC_CONTAINER";
ASSIGN 'AC, AA, AR, CE' TO "GLOBAL_$AUTHORIZEDVALUES_DOC_CONTAINER.C_MATURITY";

```

```

ASSIGN 'DBLFAIX.UNIX PATH $HOME/db/' TO "GLOBAL_$CONTAINER_ACCESS_METHOD";

```

### PSN (libLV0XCDMA.a)

The libVX0CDMA.a library must be recompiled (*catpsninst.sh PSN.in*) for the applicative containers to be visualized in a PSN. Here is an example of a *PSN.in* file:

```

*DB CATCON
*ENV VPMENV
CATIA_MODEL
DOCUMENT
DOCV5
DOC_CONTAINER

```

### VPM Environment Declaration Parameters (CATCDMA.dcls)

To open applicative containers from a PSN, the following declaration parameters must be added to the *CATCDMA.dcls* (or the *USRENV.dcls*):

```

CATCDMA.METHOD_LIST(x).CATAB = 'DOC_CONTAINER' ;
CATCDMA.METHOD_LIST(x).TYPE = 'Reserved' ;
CATCDMA.METHOD_LIST(x).COMMAND = 'CATIAV5' ;

```



```
CATCDMA.METHOD_LIST(x).WHERE = 'Both';  
CATCDMA.METHOD_LIST(x).ROLE = 'Tools';  
CATCDMA.METHOD_LIST(x).TAG = 'CdmaPrincPanelOpenCATIAV5';
```

## CATIA Environment Declaration Parameters

The following environment variables must be set to 1 to activate the applicative containers. These settings can, for example, be added to the file *CustoVpmToV5.sh*:

```
export INTEROP_CONTAINER_V5R8=1  
export Force_Container_In_PDM=1  
export CATDMUDataInPDMNameCusto=1
```

## Customizing Expand Behavior

Note that the new expand behavior customization capabilities described in the section *Customizing=>Customizing the VPM Session of the ENOVIAVPM User's Guide* will not be available until 1.5 PTF7.

## Saving a Graph Session

- Be aware of the following problem when saving a graph session:
  1. You paste a new child to a Part
  2. You cut or replace the new child before the paste has been committed to the database.
  3. You save the graph session into a file.
  4. The file will include the cut or replaced child, and the child will be displayed when the graph session file is opened.
- Impossible to commit into the database modifications registered in a graph session file:
  1. Make some changes to a Product Structure graph (paste, cut, etc.)
  2. Save the graph to a file without committing the changes.
  3. Close the graph window and discard the changes.
  4. Open the graph session file.
  5. Make other changes.
  6. Save work to the database.
  7. The changes included in the file are listed but you **cannot** check them for commitment.  
The new changes made after the graph file was opened are listed as usual and you **can** check them for commitment.

## CATCfglInterfaces.cpp

The API CATCfglInterfaces.cpp needs a complete login with user and role, otherwise security management will prevent the expand of the root part. For the same reason, LV0EXPND will no longer be available and is replaced with AT0EXPND.

## Problem on Solaris when generating the PSN Library

### Declaration Parameters

- To use the *Start With* operator as the default for advanced queries, see catcdma.QUERY.OPERATOR\_START\_WITH

### Compare with Database Command

The *Compare with Database* command does not take into account:

- what is displayed (a collapsed branch will be compared)
- the configuration filter (a filtered part will be compared)
- the CSB filter (a filtered Part will be compared).

However, the links of deleted Parts (in the database) **are** compared.

The technology the command is based on does not allow the correction of these bugs. The command therefore has to be deactivated. This is how we advise you to proceed:

1. Let us assume you want to compare graph A with the database.  
Create a new graph. The root must belong to graph A, but it is not necessarily the root part.
2. Apply the desired CSB and configuration filters.
3. Expand and collapse the desired branches.
4. Compare the two graphs.

### Prerequisite Interoperability PTFs

For **CATIA 424-1**, the following PTFs are prerequisite:

- HC84033: It is impossible to manage document revision using DMUSLF.
- HC84902: The *File=>Save* command in CATIA updates frozen Parts.
- HC85860: The cgr stored in datalinks is not updated after the V4 model is modified.
- HC85938: Unable to store model using DBLFCAT
- HC85967: Unable to store a model with DBLFCAT
- HC87012: When executing the *File=>Save* command, VPM cannot be found to save a model. Error occurred in Japanese environment.
- HC89784: Standard DS traces cause trouble in VPM 1.5 PTF3. Vpmmdblbatch.sh 26295 segmentation fault. DBLDRW entry issued.
- HC89158: When you version a Part, the tolerances are not updated.

## Cumulative Fixes PTF6

OS	UB	OS	UB	OS	UB	OS	UB
IX	UB97759	HP	UB97794	SG	UB97815	SU	UB97776
IX	UB97758	HP	UB97803	SG	UB97818	SU	UB97774
IX	UB97792	HP	UB97806	SG	UB97763	SU	UB97780
IX	UB97788	HP	UB97797	SG	UB97812	SU	UB97770
IX	UB97765	HP	UB97808	SG	UB97811	SU	UB97773
IX	UB97764	HP	UB97800	SG	UB97805	SU	UB97771
IX	UB97760	HP	UB97798	SG	UB97766	SU	UB97767
IX	UB97790	HP	UB97796	SG	UB97813	SU	UB97778
IX	UB97787	HP	UB97795	SG	UB97816	SU	UB97772
IX	UB97786	HP	UB97802	SG	UB97814	SU	UB97768
IX	UB97793	HP	UB97762	SG	UB97809	SU	UB97779
IX	UB97791	HP	UB97801	SG	UB97807	SU	UB97777
IX	UB97789	HP	UB97804	SG	UB97817	SU	UB97775
IX	UB97761	HP	UB97799	SG	UB97810	SU	UB97769
IX	UB97785	HP		SG		SU	

## Free Text PTF6

<b>Action</b>	<ul style="list-style-type: none"> <li>• HC88861: There is a problem with the user exit CATVpmAFUsrMethod::CheckUserCondition</li> <li>• HC90108: Generation of the user exit library LIBVX0AFUSR.A failed with the sample source file CatVPMAFUsrMethod.cpp</li> <li>• HC89643: STEP file AP203.VAction with Chinese characters</li> </ul>
<b>Admin</b>	<ul style="list-style-type: none"> <li>• HC77699: Duplicating a Part with more than forty models is impossible. We have no access to the <i>Yes</i>, <i>No</i> or <i>Duplicate</i> buttons. --&gt; Now it is possible to modify the resource CdmaMessageRepDuplicate in CATDMDIgCDMAMessage</li> <li>• HC82805: Search with field</li> <li>• HC90055: When migrating from VPM 1.2 TO 1.5 the command streams VPINSTS9_1 and VPINSTS9_2 are not listed.</li> <li>• HC90581: CATCfglInterfaces.h expand does not find all the models</li> <li>• HC90073: The catcdma.VPM.MML.SYNCHRONISE.* declaration parameter series is missing although it is documented.</li> <li>• HC90465: There is a CATIA abend S11 when we use the DBLFAIX repository type in VPM. !! A correction is needed on both the VPM and CATIA sides. For the CATIA PTF, please track the APAR HC90465 !!</li> <li>• Script MS_conf_migr_DB2.clp mandatory before update_EXT.clp</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• HC84166: The opening of the PSN stops at the Part model without opening the model.</li> <li>• HC86200: A Part cannot be created after copying attributes of a Part from another environment.</li> <li>• HC88578: The results of the interference analysis are differentiated when performed on one or more models.</li> <li>• HC89165: The depth expand limit is set back to manual although the declaration parameter catcdma.PSN.DEPTH_PERSISTENCY is set to TRUE.</li> <li>• HC89346: Extract query with a * in the value.</li> <li>• HC89374: The deep Part table of a class that exists in the first stage status is pasted to a suitable Part and two graphs are compared.</li> <li>• HC88755: There is an abend if the DBLFCAT access method is used for the</li> </ul>

	<p>document creation.</p> <ul style="list-style-type: none"> <li>• HC89558: The <i>Get All Components</i> menu item lists all Parts in the environment.</li> <li>• HC89657: Copying the PSN is not possible when using <i>Select Object</i>.</li> <li>• HC88991: There is a synchronization problem when a generate twins model a CATPart.</li> <li>• HC89679: Replace-&gt;from Clipboard : Depth expand limit-&gt; Any does not work.</li> <li>• HC89848: The order of attributes in the Rename panel is taken into account by VPMA but not by the PSN Rename panel.</li> <li>• HC89499: Rename KO with two Apply's.</li> <li>• HC90249: The declaration parameter <code>catcdma.GRAPH_ICON().ACTION</code> can be set to <code>FILTEROUT</code> but the value <code>FILTERIN</code> does not work in the context menu.</li> <li>• HC90458: PSN Associate New Part does not work if the <code>Part_List</code> alias is different from the Part. Associate New Doc results in an abend S0006.</li> <li>• HC89697: There is incorrect behavior for a new version in advanced mode.</li> <li>• HC86755: The behavior between an advanced and an intermediate query is different.</li> <li>• HC89635: The wrong lines are in the display when resetting a filter.</li> <li>• HC90654: There is a VPM abend S11 when registering a V5 CATPart via Quick Import.</li> <li>• HC91312: The wrong filter is the result when a collapsed graph and Open Clashes/Show in PSN are used.</li> <li>• HC89648: An error is caused by the Chinese "synonym" in the PSN.</li> <li>• HC91320: A model is created in the public org by default.</li> <li>• HC90596: Impossible to open a tree in static mode after setting the declaration parameter for the <code>C_COUNT</code> attribute.</li> </ul>
<b>CFG</b>	<ul style="list-style-type: none"> <li>• HC89198: Options in use can be removed from the Option dictionary.</li> <li>• HC89265: In the PSN a comment is lost.</li> <li>• HC89914: An abend S0011 occurs when using Cut with Existing Effectivity.</li> <li>• HC89811: There is a problem with the function <code>NewVersionOtherPartNumber</code> with a <code>SetConfigurable</code> by API.</li> <li>• HC90502: There is a problem with effectivities on a range containing infinity.</li> <li>• HC90536: The corporate dictionary is removed by <code>AT0CLNCFG - Clean Run</code>.</li> <li>• HC89883: Wrong return with a <code>GetTaskCaller</code> function in the user exit <code>CATDMUsrMethod</code>.</li> <li>• HC90849: There is a wrong modification flag when <code>C_COMMENT</code> is updated.</li> </ul>

<b>Multisite</b>	<ul style="list-style-type: none"> <li>• HC87938: Multisite: Replication of deleted objects is not possible in the P&amp;O.</li> <li>• HC89996: There is a problem with the Multisite function using DBLFCAT: The model is not recovered after import.</li> </ul>
<b>P&amp;O</b>	<ul style="list-style-type: none"> <li>• HC90483: The association of a profile with a role in P&amp;O is ignored when the environment name is Product.</li> <li>• HC89775: There is no output for registered data even if it performs the P&amp;O export.</li> <li>• HC90388: A cut operation in the PSN overwrites the database Part.</li> <li>• HC90498: VPMPeopleImport fails with error: Invalid STEP21 file format when importing rows into P&amp;O.</li> <li>• The MultiCAD server password is often rejected.</li> <li>• The <i>Address</i> field is not displayed in Organization.</li> <li>• The e-mail field is not displayed in Person.</li> <li>• The privilege <i>VPM.BOM.OpenRepresentation</i> is now available in the casual license.</li> <li>• The new privilege <i>VPM.Action.Use</i> --&gt; Update your privileges with <i>VPMDataManager</i>.</li> <li>• The new privilege <i>VPM.CFG.CleanAssembly</i> --&gt; Update your privileges with <i>VPMDataManager</i>.</li> </ul>
<b>Publish</b>	<ul style="list-style-type: none"> <li>• HC89667: For cluster management there is no scrollbar on large lists. --&gt; You have to modify <i>CATVpmDlgCondition</i> as follows:  <pre>ContainerMain.PageStandard.FrameStandard.ComboAttribute.Style = "DropDown"; ContainerMain.PageStandard.FrameStandard.ComboAttribute.Style = "20";</pre> </li> </ul>
<b>User Exits</b>	<ul style="list-style-type: none"> <li>• Method <i>queue()</i> added in the API <i>CATVpmUsrReplication</i>.</li> <li>• New API <i>CATDMUsrMethod::ConfigHandlerVisibilityControl</i></li> </ul>
<b>VPM NT</b>	<ul style="list-style-type: none"> <li>• HC87642: VPM interoperability: Action creation failed with nothing keyed in the description.</li> </ul>

## PTF7 Update

**REMEMBER to rebuild the user exits!**

User exit sample resides under \$CATIA/code/sample

## Versioning

A versioning problem has been detected which occurs when the following three conditions are fulfilled:

- a Part has an associated model or document  
AND
- the C\_ORDER column is present in the PART\_LIST and CATIA\_MODEL or DOCxxx tables  
AND
- the C\_ORDER column is the last of the non C\_ columns in the PART\_LIST table.

The error 20708 then terminates the versioning operation.

To prevent this from happening, **before** starting VPM, enter:

```
export CATComputeUserValuesBeforeWrite=NO
```

## Interrupt Panel

**Purpose:**

Enables a user to stop expand execution before its normal termination. This can be useful if the result is much larger than expected by the user.

**Limitations:**

The expand can be interrupted only at the end of each level. Therefore the user may sometimes have to wait more than a minute before the expand actually stops.

An expand with multiple configuration handlers cannot be interrupted (the panel is not displayed).

**Activation:**

Add the following lines to your declaration file:

```
CATCDMA.VPM.EXPAND.INTERRUPTABLE : LOGICAL ;  
CATCDMA.VPM.EXPAND.INTERRUPTABLE = TRUE ;
```

## Enhanced Object Expand

The expand capability has been enhanced for optimum organization and management of the different types of objects you have to deal with. To activate this new functionality, add the following variable to the .dcls file:

```
CATCDMA.VPM.EXPAND.PTF : INTEGER ;  
CATCDMA.VPM.EXPAND.PTF = 7 ;
```

Setting the variable `CATCDMA.VPM.EXPAND.PTF` to 7 results in a new button called *Settings* being displayed in the PSN window, next to *Manual* and *Any*. This button displays a new window allowing expand customization. This window lists all environments and tables that may appear in the expand.

For each table the user can select one of the following options:

- *Always*  
Table data will always be included in the expand
- *Never*  
Table data will never be included in the expand
- *Using Activator*  
Table data can be included in the expand using an activator.

In addition, in the case of the options *Always* et *Using Activator* the user can define a condition to filter, for each table, the data to be included in the expand.

Other options enable the selection of a specific color and icon for each node depending on the data type (i.e. the table) and the conditions on the attributes (a maximum of five conditions).

The new window is described in "Customizing Expand Behavior" in the section "Customizing the VPM Session" in the *ENOVIA<sub>VPM</sub> User's Guide*.

## Applicative Containers



## CATIA Environment Declaration Parameters

There is in fact only one environment variable that has to be set to 1 to activate the applicative containers:

```
export INTEROP_CONTAINER_V5R8=1
```

## New Functionalities in the MML Graph

- *Graph presentation*

This item has been added to the *Graph* menu enabling the display of:

- straight links / square links
- packed / unpacked
- centered / indented.

- *Change UUID*

The menu item has also been added to the MML graph (underneath *Graph==>UUID Management*). This functionality is already available in the *Admin* menu of VPMA but its addition to the MML graph will allow users to select models from different environments.

## Removal of the ACTION Item from the Objects Menu

The ACTION item may disappear from the Objects menu when it is not used. The item is controlled by the privileges on the *Action.Create* and *Action.Query* processes. If users do not have both these privileges, they cannot access any Action and the ACTION item is removed. This is activated by means of the declaration variable `CATCDMA.VPM.ACTION` set to `TRUE`.

## Potential Performance Enhancement (VPM1.5 PTF5)

### Expand PSN Tree in VPM1.5 PTF5

**Note that when working with the dictionary in memory the following steps are to be done on both VPM and CATIA:**

1. Edit the file `CATCDM.dcls` by replacing the line:

**DB2**

```
catcdm.DBCONN.DB2.MODULE = 'JD061DIB'  
with:  
catcdm.DBCONN.DB2.MODULE = 'JD062DIM' ;
```

## ORACLE

```
catcdm.DBCONN.ORACLE.MODULE = 'JD061DIB'  
with:  
catcdm.DBCONN.ORACLE.MODULE = 'JD062DIM' ;
```

## New Profile Variable

The variable `$MMLV5_NAVIG` has been added to the profile enabling the customization of the attributes displayed in MML V5 boxes.

## User Exits

A new user exit named `ComputeUserValuesBeforeWrite` has been added. It is called during the creation process of BOM objects, before the older user exit `ComputeValuesBeforeWrite`. It is different from `ComputeValuesBeforeWrite` in that it is called *before* checking the presence of the object in the database. It is thus possible to provide it with extra significant attributes that are kept hidden from the end user but that are mandatory for both object checking and creation.

## Online Documentation

To access the online documentation from VPM (help on item, etc.), the setting `VPM_SEARCH_PATH` must be modified.

For releases up to VPM 1.5 PTF 5, run the following command (to be entered on **one** line):

```
VPMSettings -a -n VPM_SEARCH_PATH -v  
$$VPM_ACTION_PARAMETER:$VPM_AFL_STATUS_GRAPH:$VPM_AFL_LOG  
_PATH:$VPM_AFL_METHOD_PATH:$VPM/reffiles:$CATDocView:$CATD  
ocView/online/:$CATDocView/online/vmlug:$CATDocView/online/  
vmlad:$CAT_CUST:$HOME
```

As of VPM 1.5 PTF 6, run the following command (to be entered on **one** line):

```
VPMSettings -a -n VPM_SEARCH_PATH -v  
$$VPM_ACTION_PARAMETER:$$VPM_AFL_STATUS_GRAPH:$$VPM_AFL_LOG  
_PATH:$$VPM_AFL_METHOD_PATH:$VPM/reffiles:$CATDocView:$CATD  
ocView/online/:$CATDocView/online/vmlug_E2:$CATDocView/onli  
ne/vmlad_E2:$CAT_CUST:$HOME
```

Note: The above examples use the default value of the settings, so you may have to modify it beforehand to take into account specific customizations; the relevant path items relating to the documentation are those containing the string \$CATDocView.

## Propagation of Volumes to Multiple Environment Roots

Volumes are now propagated to all the specified environments, independently of the CATIA/CDM/VPM projects. Make sure you set the declaration parameter `CATCDMA.CSB.VOLUME.ENVIRONMENTS` to `ALL`.

## BOM API

The BOM API `CATDMUsrInstance` was enhanced with the following methods:

- `CreatePart`: Part object creation
- `CreateRepresentation`: representation (model, document) object creation
- `Delete`: Part, model, representation object deletion
- `GetValues`: get the values of any attribute of an object
- `Query`: query object(s) in the database.

## Multisite

Multisite now provides a new capability. Metadata can now be exported and imported in XML format. This has no impact on current multisite functionalities. The only impact is during export and import.

## Multisite Customization

### 1. Preventing the Transfer of Locked Objects to Another Site

The check is performed when declaring and setting to `TRUE` the declaration parameter `CATCDMA.VPM.MULTISITE.TRANSFER.CHECK_LOCKS`. The default behavior i.e. when the declaration parameter is undeclared is to allow the transfer of locked objects.

This parameter modifies the behavior of the command `Admin/Replication/Transfer to site...` in the main panel.

The transfer is cancelled when a lock is found *on the root part or any of its representations*.

### 2. Authorizing the Queuing of Remote Objects

This means requesting the synchronous/asynchronous replication of objects belonging to another site. The check is performed when declaring and setting to `FALSE` the declaration parameter `CATCDMA.VPM.MULTISITE.EXPORT.CHECK_SITE`.

The default behavior (i.e. when the declaration parameter is left undeclared) is not to allow the replication request of remote objects.

The declaration parameter modifies the behavior of the commands `Admin/Replication/Add to queue...` and `Admin/Replication/Replicate...` in the main panel.

The transfer is authorized even though the object (a part, or the part a representation is attached to) belongs to a site that is not the current site.

### 3. Authorizing the Deletion of Remote Objects

This means deleting the local copy of a remote complex object that cannot be otherwise modified.

This can be done on Part objects using the command `Admin/Replication/Delete remote object...` in the main panel.

This command is made available by declaring and setting to `TRUE` the declaration parameter

```
CATCDMA.VPM.MULTISITE.DELETE_REMOTE.
```

## Single Sign-On

The following is a description of the VPM-specific customization to be implemented to use a single sign-on (or "external login").

To activate the single sign-on plug-in in VPM, run the command:

```
VPMSettings -a -n VPM_EXTERNAL_LOGIN -v YES
```

The following environment variables must also be set:

- CATLoginServletHost
- CATLoginServletPort
- CATLoginServletURI

They reference the server host name, the port to be used for HTTP connection, and the servlet to be run on it, respectively.

If data encryption is enabled on the server, the following variables must also be set to point to the correct library and encryption/decryption methods:

- CATLoginCryptLibrary
- CATLoginCryptFunction
- CATLoginUncryptFunction

Note: To use built-in 64-bit encoding provided by VPM, set these variables as follows:

```
CATLoginCryptLibrary=VX0SCEXT  
CATLoginCryptFunction=encodeBase64Password  
CATLoginUncryptFunction=decodeBase64Password
```

## Declaration Parameters

- To enable correction of graph session problems, see [catcdma.VPM.GRAPHSESSION.C\\_COUNT](#)

## Multisite

### New Naming Algorithm for Tar Files

- The new naming consists of concatenation of environment, COID and sequence number.
- Old tar files are readable.
- The import mechanism no longer depends on the tar file name.

To change the naming, use the declaration parameter:

```
CATCDMA.VPM.MULTISITE.NAMING : INTEGER ;

/*

0 ==> OLD_NAMING as before ptf7

1 ==> NAME FORMAT is CAENV_coidhexa_seqno

2 ==> NAME is pure random

*/

CATCDMA.VPM.MULTISITE.NAMING = 0 ;
```

### Optimizing to Copy Longfields into the Tar File

This is intended for longfields stored in files, to improve performance and robustness.

To run the new PTF7 behavior, use the declaration parameter:

```
CATCDMA.VPM.MULTISITE.EXPORT.LFCOPY : LOGICAL ;
CATCDMA.VPM.MULTISITE.EXPORT.LFCOPY = TRUE ;
```

## Export/Import Logging

If you want to use logging, run the script *MS\_LOG\_DB2.clp* for DB2 or *MS\_LOG\_Oracle.sql* for Oracle.

To enable logging, use the declaration parameter:

```
CATCDMA.VPM.MULTISITE.LOGGING : LOGICAL;  
CATCDMA.VPM.MULTISITE.LOGGING = TRUE;
```

## Configuration

### Updating Configuration Handlers from Dictionary Rules

The aim of this improvement is to provide the possibility to update the contents of the configuration handlers with regards to the dictionary changes (essentially to the rules).

For example, if users have created new rules in the dictionary of a product that has existing configuration handlers, they can update, in a single step, all the existing configuration handlers by applying rules to them.

If any conflict appears when applying rules to configuration handlers, this will interrupt the operation without modifying any of them.

### **ATOMIGDICO** Batch

The aim of this batch is to migrate the option dictionary of the configuration management from ENOVIA<sub>VPM</sub> 1.2 to ENOVIA<sub>VPM</sub> 1.3 (or newer level).

This creates ENOVIA<sub>VPM</sub> 1.3 categories in the dictionary corresponding to ENOVIA<sub>VPM</sub> 1.2 option types.

### Configuration Database Cleaner for ENOVIA<sub>VPM</sub>

The aim of this batch is to clean the configuration database of:

- inconsistencies between different configuration objects
- useless data (garbage)

This cleaning process should correct certain potential VPM crashes and increase performance (assembly expand, for example).

## New Security Process

Application	Function	Command	Engineer	Administrator	Purpose
VPM	BOM	BackupManagement	x	x	Manages the Backup Management panel in VPM.

## Prerequisite Interoperability PTFs

For **CATIA 424-1**, the following PTFs are prerequisite:

- HC83200: MML type model to model => entity to entity migration: Action required.
- HC83814: There is no extraction of passing planes on VPM.
- HC83996: Error 744 when reading a dr model from the PSN graph.
- HC84033: It is impossible to manage document revision using DMUSLF.
- HC84902: The *File=>Save* command in CATIA updates frozen Parts.
- HC85860: The cgr stored in datalinks is not updated after the V4 model is modified.
- HC85938: A model cannot be stored using DBLFCAT.
- HC85967: A model cannot be stored using DBLFCAT.
- HC86219: There is no way to redirect the /tmp.
- HC86785: Chamfer FD&T dimensioning is split into two when in the VPM assembly context.
- HC87012: When executing the *File=>Save* command, VPM cannot be found to save a model. An error occurred in the Japanese environment.
- HC87510: The Merge function does not follow the security process.
- HC87755: There is a performance problem loading the FD&T function on an assembly coming from VPM.
- HC87890: No trace file is generated in the QP035AMP output + DMUSLF problem
- HC87969: The 4DNav tessellation batch failed with a VPM database.
- HC89158: When you version a Part, the tolerances are not updated.
- HC89710: Assembly tolerancing becomes inactive after Part versioning in VPM.
- HC89784: Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdbatch.sh 26295 segmentation fault. DBLDRW entry issued.
- HC90047: An abend occurs when opening a V5 model in V4.



- HC90465: There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
- HC91265: The compute structure does not work with the GFMNOD catgeo.
- HC91296: Box zoning does not work Project-comprehensive
- HC91642: A twin model cannot be opened in CATIA V4 after a new version.
- HC91658: Backup management for saved versions of CATIA models.
- HC92272: The QP035AMP process is triggered when saving a model on HP.

## Cumulative Fixes PTF7

OS	UB	OS	UB	OS	UB	OS	UB
IX	UB98821	HP	UB98822	SG	UB98840	SU	UB98817
IX	UB98819	HP	UB98828	SG	UB98839	SU	UB98825
IX	UB98830	HP	UB98837	SG	UB98832	SU	UB98823
IX	UB98820	HP	UB98826	SG	UB98841	SU	UB98816
IX	UB98815	HP	UB98818	SG	UB98824	SU	UB98827
IX	UB98836	HP	UB98814	SG	UB98829	SU	UB98834
IX	UB98833	HP	UB98831	SG	UB98835	SU	UB98838

## Free Text PTF7

<b>Action</b>	<ul style="list-style-type: none"> <li>• HC90452: There is an abend S006 when I click on Action 1 to see the proposed effectivity.</li> <li>• HC90530: Although part P1 is configured as having range type only, the date type effectivity is propagated on the link P1-P2.</li> <li>• HC91419: There is an abend S006 when a link is created in the PSN with only privilege on Action: Action query.</li> <li>• HC91912: Only one choice is required in the status list for a complex query on an Action.</li> </ul>
<b>Admin</b>	<ul style="list-style-type: none"> <li>• HC91362: Help files cannot be displayed in Netscape.</li> <li>• HC89539: An abend occurs in VPM when more than 19 Part attributes are defined in the profile.</li> </ul>

	<ul style="list-style-type: none"> <li>• HC91887: Error messages from CDM triggers are not correctly displayed.</li> <li>• HC91954: VPM settings are not saved ABS2.</li> <li>• HC92547: Save Clash Data / REPOSITORY_APPDATA is not taken into account.</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• HC90420: There is a problem with <i>Save graph session after Filter in</i>.</li> <li>• HC90561: Old data stays in the <i>Search word</i> field for a simple query of VPMA in spite of clearing it.</li> <li>• HC90967: There is a problem when opening a <i>.psn</i> created from a PSN expand with a configuration with date.</li> <li>• HC92069: Static graphs do not work well with <i>Filter by identification</i>.</li> <li>• HC82237: When the <i>Highlight in PSN</i> option is selected the response time is unacceptable.</li> <li>• HC77599: After a hazardous operation the PSN panel cannot be closed.</li> <li>• HC90268: VPM crashes when a model is launched in a large PSN.</li> <li>• HC90824: Traces when displaying color in the PSN using a user exit.</li> <li>• HC91865: Entries cannot be renamed or deleted in a client custom table in cust spec environment.</li> <li>• HC90709: There is an icon problem in the PSN when using a user exit.</li> <li>• HC90679: Refresh Color icon fails in the PSN.</li> <li>• HC91314: There is an abend S0011 when doing a cut in the Context menu of the PSN depressing <i>Ctrl</i> when performed a second time.</li> <li>• HC87586: There is an error when using the <i>batchpack-userid.log</i> file.</li> </ul>
<b>CATCDMA</b>	<ul style="list-style-type: none"> <li>• HC91036: VPM goes down after a volume filter.</li> </ul>
<b>CFG</b>	<ul style="list-style-type: none"> <li>• HC91325: How can Get Config options be removed from the VPM query panel.</li> <li>• HC90946: The <i>Set configurable</i> operation in the PSN is extremely slow on the Oracle database.</li> <li>• HC91825: When selecting the link effectivity of a Part and its parents which are not the elements whose Replace was done, an abend occurs.</li> <li>• HC90667: When saving a <i>.psn</i> file in a user quotas nearly or completely full, the file is incomplete or empty.</li> <li>• HC91795: The expand works differently in Advanced mode.</li> <li>• HC92308: There is a problem with a PSN expand with option and milestone configuration.</li> </ul>
<b>Interoperability</b>	<ul style="list-style-type: none"> <li>• HC91599: A user exit is not called when moving Parts in CATIA V5.</li> <li>• HC92132: CATPart loading from the PSN is inconsistent (after an Associate in the</li> </ul>

	<p>PSN).</p> <ul style="list-style-type: none"> <li>• HC92328: Constraints are lost when an assembly is versioned.</li> </ul>
<b>MML</b>	<ul style="list-style-type: none"> <li>• HC91099: A line in <i>MMLSynch.sh</i> is not in the right place.</li> <li>• HC91472: There is a problem synchronizing MML links with a batch. Caution! CATIA V4 PTFs are needed: 422-1 : HC90954 424-1 : HC83200 424-2 : HC90954</li> </ul>
<b>P &amp; O</b>	<ul style="list-style-type: none"> <li>• HC92316: Using the P&amp;O privilege ACTION_USE instead of ACTION_EDIT results in a system abend when saving the PSN after any kind of modification.</li> <li>• HC91333: The <i>VPMLoginSession</i> method does not work properly.</li> <li>• HC90804: There is a coredump when a CATPart is opened from VPM Access using CATIA V5R7 SP5. There is no problem opening the CATPart from the PSN window.</li> <li>• HC91409: VPM crashes when you try to print the result of the P&amp;O person tab.</li> </ul>
<b>PSN</b>	<ul style="list-style-type: none"> <li>• HC86436: There is a problem saving the PSN graph after applying a <i>Filter in</i>.</li> </ul>

## PTF8 Update

### REMEMBER to rebuild the user exits!

A user exit sample resides under `$VPM/code/sample`.

## Connection Module Generation Problem with Oracle and IRIX

To solve this problem, modify the *lkora* shell script as follows:

1. Replace:

```
#####
## MAIN
```

```
#####
```

with:

```
ratrap_oracle_include ()
{
[[ $TRACE_VPM -ge 1 ]] && set -x
II="-I "
for mot in $*
do
case $mot in
-I) continue ;;
*)
if [[ -d $mot ]] ; then
TEMPO=$TEMPO$II$mot" "
# echo TEMPO=$TEMPO
fi
;;
esac
done
ORA_INCLUDES=$TEMPO
#echo ORA_INCLUDES=$ORA_INCLUDES
} # end of ratrap_oracle_include
#####
## MAIN
#####
```

## 2. Replace:

```
if [[ $os = IRIX ]] ;then
ratrap_oracle dbcsta
ratrap_oracle dblsas
ratrap_oracle dbindb
ratrap_oracle orindb
ratrap_oracle orxsta
fi
```

with:

```
if [[ $os = IRIX ]] ;then
ratrap_oracle_include $ORA_INCLUDES
ratrap_oracle dbcsta
ratrap_oracle dblsas
ratrap_oracle dbindb
ratrap_oracle orindb
ratrap_oracle orxsta
fi
```

## User Exits

The user exit `GetReplaceCustomParts` has been added in PTF8.

It is called when the custom replace is activated in the PSN (see [Product Structure Navigator Customization](#) below the and header file `CATDMUsrMethod.h` for details).

## Login Customization

This file describes how to customize the login process of VPM in order to both check and modify the user/password provided by the end user when starting VPM.

It is thus possible, for example, to replace the input password entered by a user with another one stored in an external dictionary, so the end user never actually uses a "real" database password, and cannot access the database through command-line tools such as `db2` or `sqlplus`.

The solution is based on a user exit which is called at login time, after the user has entered his or her id and password and before the application connects to the database.

The database connection will actually be opened with the user/password provided by the user exit. That user/password will then be used for the duration of the following VPM session.

## Requirements

VPM must be run in server-authenticated mode.

## Customization

You must rebuild the library `VX0SCEXT` (e.g. the UNIX file named `libVX0SCEXT.so` on Sun systems, and so on).

Note: The default library provided in standard installations cannot be used here as is. It implements an more complex external login check based on the use of a remote web server, such as WebSphere. See [Single Sign-On](#) for details.

The library must contain a C function with the following signature:

```
extern "C" int CATVpmSCGetExternalUser(const char* iApplication,
                                     char**      ioUserId      ,
                                     char**      ioPassword   )
```

This function will be called at login time by VPM when the user has typed in his or her user and password.

The argument `iApplication` contains the application that is currently being accessed. At the present time, that can be either `VPM` for the standard VPM interactive application or various batches and tools, or `VPMAdmin` when starting the P&O administration tool (e.g. `VPMPeopleEdit`).

The arguments `ioUserId` and `ioPassword` contain the user and password provided by the user.

The value contained in these variables may be modified by the method, so VPM will actually use a different user and/or password to connect to the database, as explained above.

Note: when modifying the value of the user or the password, memory allocation and de-allocation should be performed by the operators `new` and `delete`.

The method should return 0 indicating success (i.e. the user/password typed in are valid and accepted) or any other value if the user and/or password are rejected.

The sample file `CATVpmSCGetExternalUser.cpp` provided with the installation contains a basic implementation of the method that reads the output user and password in environment. Refer to the file itself for details.

## Building and Linking the Library

The shell `makeVX0SCEXT.sh` is provided for building the library.

Type in:

```
makeVX0SCEXT.sh <dir>
```

where `<dir>` is the directory containing the source file(s). Once the build and link perform successfully, the library `libVX0SCEXT.so` is

created in the current directory.

## Run-time Environment Customization

Once the run-time environment is set, type in:

```
VPMSettings -a -n VPM_EXTERNAL_LOGIN -v YES
```

to activate the external login code in VPM.

Type in the following:

```
export STEPLIB=<dir>:$STEPLIB
export LD_LIBRARY_PATH=$STEPLIB
```

where <dir> is the directory where the library `libVX0SCEXT.so` is located.

## Versioning Customization

When versioning a Part, the representations that are copied from the previous Part to the new one keep the same user and organization as the source representations.

It is now possible to modify this behavior by assigning the duplicated representations to the current VPM user and organization. This is done by setting the declaration parameter `CATCDMA.VPM.VERSION.REVISION.KEEP_RESPONSIBLE` to `FALSE`.

## PSN Customization

The PSN is enhanced with a new "custom replace" command. In addition to the standard replace commands allowing a Part to be replaced with the one stored in the clipboard or with another of its versions, it is possible to provide the list of candidate Parts through a dedicated user exit.

The custom replace is activated by setting the declaration parameter `CATCDMA.PSN.REPLACE_CUSTOM` to `TRUE`.

A new `Replace/Part custom...` will then be available from the contextual menu of Part objects.

The user exit called by VPM to get the list of candidate parts is:

```
CATDMUsrMethod::GetReplaceCustomParts
```

These Parts will be displayed in a list so users can choose which one they want to replace their Part with. Refer to the user exit header for further information on how to use this method.

## PSN Session

- In a PSN, settings can be defined for object display and filter. These settings are stored with the PSN session, and applied when it is read. Otherwise, the current settings are applied, and the filtering can be totally different from those that were applied to the graph when it was saved.
- In the *Load graph session* window, the Report option, when selected, generates a report recalling the options (file name, All/Selected instances, Static/Dynamic, Viewer), and potential problems or events that occurred during graph expansion, i.e. a Part that was not found or that was replaced due to a move subsequent to the session save. This report is automatically displayed, and can be displayed later from the *Session info* window.
- In dynamic mode, the parts come from the database. A part that was selected or collapsed may have been replaced, or moved since the session was saved. But you still want the new part to be selected or replaced. To allow that, the identification algorithm that is used in the compare graph is used for the expansion of the graph.

## AT0EXPND

### XML

The Portal is able to generate XML files describing an assembly, files that DELMIA can read. To simplify the generation of these files, it is possible to generate them using AT0EXPND. XML is a new savemode. It works only from a Part, selected with its COID, COMPID and environment. A config handler can be specified, but no CSB filter (DELMIA is supposed to work with the complete product. You only have to specify the configuration). Some settings need to be made with *VPMSettings*:

```
IPD_CGR_OUTPUT_DIR: CGR directory  
IPD_EXPORT_REPOSITORY: xml file directory  
CGR_BATCH_AUTO_EXPORT=YES: for CGR generation
```

### PSN Session as Input

AT0EXPND can read a PSN session, with the following new parameters:



- PSNfile: name of the PSN session
- readmode: DYNAMIC or STATIC.

With this mode, the CSB filter, the config handler and the root part are managed through the PSN session, so they cannot be defined as arguments.

## Format

In the BOMFILE savemode, it is possible to specify the format, html or text, as with the *Print part list* interactive command of the PSN.

## Report

As in interactive mode, it is possible to generate a report when a PSN session is read. Its name is the same as the session, but its extension is *txt*.

## Selecting Attributes in the Result Window

By default, the list of the attributes displayed in the *VPMAccess* window is hard-coded. However, you can also define the list with the profile for the *VPMADM* environment, by means of the `GLOBAL_$RESULT_ACTION` variable.

### Example

```
/* DEFINITION OF SQL VIEWS */
```

```
/* ONE TABLE DIALOGUE VIEWS */
```

```
/* MULTIPLE TABLES DIALOGUE VIEWS */
```

```
/* FORMAT VARIABLES */
```

```
ASSIGN 'SELECT "secondary_id", "action_type", "priority", "owner", "organization",  
"start_date", "end_date", "status", "description" FROM "Action"  
TO "GLOBAL_$RESULT_ACTION";
```

```
/* MISCELLANEOUS VARIABLES */
```

```
ASSIGN 'ACTION' TO "GLOBAL_$LIST_QUERIES";
```

```
ASSIGN '2002 05 13 11 41 44 000000' TO "GLOBAL_C_LASTMOD";
```

```
ASSIGN 'MMS' TO "GLOBAL_C_LASTMOD_USER";
```

```
ASSIGN 'FIN DU CS' TO "GLOBAL_FIN";;
```

## STEP Import Declaration Parameters

- catcdma\*.IMPORT
- catcdma.STEP.MODE.REP.IMPORT

## Online Documentation

To access the online documentation from VPM (help on item, etc.), the setting `VPM_SEARCH_PATH` must be modified.

For releases up to VPM 1.5 PTF 5, run the following command (to be entered on **one** line):

```
VPMSettings -a -n VPM_SEARCH_PATH -v  
'VPM_ACTION_PARAMETER:$$VPM_AFL_STATUS_GRAPH:$$VPM_AFL_LOG  
_PATH:$$VPM_AFL_METHOD_PATH:$VPM/reffiles:$CATDocView:$CATD  
ocView/online/:$CATDocView/online/vmlug:$CATDocView/online/  
vmlad:$CAT_CUST:$HOME'
```

As of VPM 1.5 PTF 6, run the following command (to be entered on **one** line):

```
VPMSettings -a -n VPM_SEARCH_PATH -v  
'VPM_ACTION_PARAMETER:$$VPM_AFL_STATUS_GRAPH:$$VPM_AFL_LOG  
_PATH:$$VPM_AFL_METHOD_PATH:$VPM/reffiles:$CATDocView:$CATD  
ocView/online/:$CATDocView/online/vmlug_E2:$CATDocView/onli  
ne/vmlad_E2:$CAT_CUST:$HOME'
```

Note: The above examples use the default value of the settings, so you may have to modify it beforehand to take into account specific

customizations; the relevant path items relating to the documentation are those containing the string \$CATDocView.

## Applicative Containers

The applicative containers created have to be opened in the same context as they were created. For example, if a container is saved under a Part, this Part must be the root Part of the PSN you use to open this container.

## Prerequisite Interoperability PTFs

For **CATIA 424-1**, the following PTFs are prerequisite:

- HC83200: MML type model to model => entity to entity migration: Action required.
- HC83814: There is no extraction of passing planes on VPM.
- HC83996: Error 744 when reading a dr model from the PSN graph.
- HC84033: It is impossible to manage document revision using DMUSLF.
- HC84902: The *File=>Save* command in CATIA updates frozen Parts.
- HC85860: The cgr stored in datalinks is not updated after the V4 model is modified.
- HC85938: A model cannot be stored using DBLFCAT.
- HC85967: A model cannot be stored using DBLFCAT.
- HC86219: There is no way to redirect the /tmp.
- HC86785: Chamfer FD&T dimensioning is split into two when in the VPM assembly context.
- HC87012: When executing the *File=>Save* command, VPM cannot be found to save a model.  
An error occurred in the Japanese environment.
- HC87510: The Merge function does not follow the security process.
- HC87755: There is a performance problem loading the FD&T function on an assembly coming from VPM.
- HC87890: No trace file is generated in the QP035AMP output + DMUSLF problem
- HC87969: The 4DNav tessellation batch failed with a VPM database.
- HC89158: When you version a Part, the tolerances are not updated.
- HC89710: Assembly tolerancing becomes inactive after Part versioning in VPM.
- HC89784: Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdbatch.sh 26295 segmentation fault. DBLDRW entry issued.
- HC90047: An abend occurs when opening a V5 model in V4.
- HC90465: There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
- HC91265: The compute structure does not work with the GFMNOD catgeo.

- HC91296: Box zoning does not work Project-comprehensive
- HC91642: A twin model cannot be opened in CATIA V4 after a new version.
- HC91658: Backup management for saved versions of CATIA models.
- HC92272: The QP035AMP process is triggered when saving a model on HP.
- HC93920: It is not possible to build a profile using VERPROF.

## Cumulative Fixes PTF8

OS	UB	OS	UB	OS	UB	OS	UB
IX	UB99769	HP	UB99768	SG	UB99771	SU	UB99779
IX	UB99770	HP	UB99772	SG	UB99785	SU	UB99808
IX	UB99773	HP	UB99774	SG	UB99786	SU	UB99815
IX	UB99775	HP	UB99780	SG	UB99787	SU	UB99818
IX	UB99776	HP	UB99783	SG	UB99790	SU	UB99821
IX	UB99777	HP	UB99793	SG	UB99791	SU	UB99822
IX	UB99778	HP	UB99794	SG	UB99792	SU	UB99823
IX	UB99781	HP	UB99795	SG	UB99797	SU	UB99824
IX	UB99782	HP	UB99796	SG	UB99798	SU	UB99825
IX	UB99784	HP	UB99801	SG	UB99799	SU	UB99826
IX	UB99789	HP	UB99802	SG	UB99800	SU	UB99827
IX	UB99805	HP	UB99809	SG	UB99830	SU	UB99828
IX	UB99806	HP	UB99810	SG	UB99804	SU	UB99829
IX	UB99814	HP	UB99811	SG	UB99807	SU	UB99830
IX	UB99816	HP	UB99819	SG	UB99812	SU	UB99831
IX	UB99817	HP	UB99820	SG	UB99813	SU	UB99832

## Free Text PTF8

<b>Action</b>	<ul style="list-style-type: none"> <li>• HC92219: In the Action Editor panel, the display of some attributes is truncated at random.</li> <li>• HC93539: There is no error message after validating an Action.</li> </ul>
<b>Admin</b>	<ul style="list-style-type: none"> <li>• HC94675: A local administrator cannot connect to VPM.</li> <li>• HC92571: Constraints are not stored in VPM when the global repository is set to DBLFCAT. LF00001 works. DMUSLF is involved.</li> <li>• HC93480: The custom master table is still referenced attached to Part_List.</li> </ul>
<b>CSB Admin</b>	<ul style="list-style-type: none"> <li>• HC94132: There is an error regarding voxel size in the <i>VPM Installation and Administration Guide</i>.</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• HC92837: When '&lt;' or 'between' is used, the advanced filter produces different results.</li> <li>• HC92722: In the PSN, the <i>Associate Model</i> method is not well managed.</li> <li>• HC93829: An attribute not authorized on C_ORDER when there is a new revision on PTF7.</li> <li>• HC94671: A Part pasted in the PSN cannot be displayed.</li> <li>• HC93029: There is a CPU loop on a duplicate with DB2.</li> <li>• HC92348: The filter produces wrong results.</li> <li>• HC94677: Filtering on Parts that have been pasted does not work.</li> <li>• HC94682: An effectivity in the Info-Link panel cannot be selected.</li> <li>• HC92108: The BOM print of the PSN in html format does not give the attributes.</li> <li>• HC80406: There is a problem of superimposed windows when VPM is used with CATIA.</li> <li>• HC93397: There is a problem opening a PSN with selected instances after modifying the position of a model selected in the PSN.</li> <li>• HC94689: There is a problem when the volume of a Part in the PSN is requested if the declaration parameter catcdma.VPM.EXPAND.PTF is activated.</li> <li>• HC93418: The <i>Replace from clipboard</i> does not work properly.</li> <li>• HC94062: The setup of the declaration parameter S_TYPE_REP is not reflected in the Zone Filter result.</li> <li>• HC94686: The <i>Never</i> function of the filtering container is inoperative.</li> <li>• HC94668: PSN filtering does not apply to an opened PSN.</li> <li>• HC93301: The model without the P&amp;O read permission can be loaded into CATIA from the VPM/PSN tree.</li> <li>• HC93271: A VPM1.5PTF5 / D5_41 / Catia 424R1 document cannot be loaded.</li> </ul>

	<ul style="list-style-type: none"> <li>• HC93941: When applying the <i>Associate model</i> function to a model moved from the clipboard, an SDAI error occurs.</li> <li>• HC93456: When modifying ownership in VPM Access in a Part selection, the commit is only done at the end of the list.</li> </ul>
<b>CFG</b>	<ul style="list-style-type: none"> <li>• HC93854: VPM crashes when a multi-attribute is used in an instance attribute query.</li> </ul>
<b>Multisite</b>	<ul style="list-style-type: none"> <li>• HC92750: There is a problem when a site transfer is made on a Part that is already in the queue with the <i>Complete</i> status.</li> </ul>

## PTF9 Update

### Installation

if the AIX installed C++ RunTime is 5.0.2, it must be the 5.0.2.7 otherwise the first problem encountered is an abend during installation.

#### **REMEMBER to rebuild the user exits!**

A user exit sample resides under `$VPM/code/sample`.

### **IMPORTANT!**

#### **CATIA PTFs: New Prefix**

For many years, CATIA PTFs were made up of the prefix UB, followed by a five-digit number. As all possible numbers have now been used, it is necessary to adopt a new prefix: UH.

The CATINST procedure is however unable to install any PTF delivery whose prefix is UH (and not UB). The following messages appear:

```
Error message:
An error occurred:
```

```

CATUnitToc: incorrect FIX id: UHnnnnn
CATInstToc: Init of line number 1 from control/UHnnnnn.code.
toc failed
WFTOCENC: control/UHnnnnn.code.toc: Bad file
WFIS01704 - Invalid toc format: code/UHnnnnn ignored

```

The CATINST procedure includes a test on the file prefix but only UB files are recognized, not UH files.

The UBs correcting this problem are as follows:

OS	UB	OS	UB	OS	UB	OS	UB
IX	UB99906	HP	UB99909	SG	UB99912	SU	UB99915

You do not need to build a configuration as the corrective UB unload is sufficient. When unloading this corrective, you should be aware that the selection within a list is not possible if at least one UH is already unloaded. In this particular situation, you are requested to select the PTF for this APAR keying in its identifier.

## WARNING!

### The signature for the user exit *CATDMUserMethod::OpenObject* has changed.

Formerly it was: `void OpenObject(const char *iViewer, const int iNbObj, ObjID *iObj)`  
 and is now: `Error OpenObject(const char *iViewer, const int iNbObj, ObjID *iObj)`

## Applicative Containers: PSN (libLV0XCDMA.a)

Note that in the section [PSN \(libLV0XCDMA.a\)](#) of the PTF6 section about applicative containers, an example of a *PSN.in* file is given including the table name *DOCV5*. Note that this name is only provided as an example of a table and does not actually exist.

## Managing Table Objects: DOC\_CONTAINER (Applicative Containers)

To proceed with a revision of DOC\_CONTAINER or to ensure duplication of a DOC\_CONTAINER when versioning a Part including a DOC\_CONTAINER, do the following:

### In the profile

1. ASSIGN 'SELECT S\_NAME, S\_TYPE FROM DOC\_CONTAINER' TO "GLOBAL\_\$INSERTS\_DOC\_CONTAINER";  
ASSIGN 'DOC\_CONTAINER' TO "GLOBAL\_\$LIST\_NO\_CREATE";
2. Add DOC\_CONTAINER to GLOBAL\_\$LIST\_INSERT.

### In the database

1. Drop the index VPMENV.DOC\_CONTAINER2.
2. Create the unique index VPMENV.DOC\_CONTAINER2 on VPMENV.DOC\_CONTAINER (S\_TYPE, S\_UID, S\_NAME, C\_REVISION)
3. Commit.

## V4/V5 Multiselection

When making different types of representation selections (V4 models, V5 documents, etc.), make sure you have declared common viewers for these objects.

## Graph Session

When creating and reading graph sessions for trees with, at any level, V4 and V5 objects under the same Part, make sure you have declared common viewers for these objects.

## Prerequisite Interoperability PTFs

For **CATIA 424-1**, the following PTFs are prerequisite:

- HC66598: Tools->Open Editor: If the editor window size is increased no text can be written.
- HC81497: The MML\_SOL link is desynchronized after a save.
- HC82073: Some errors are detected by the cleaner if the GSM model is loaded from VPMA and CATIA results in an abend at save.
- HC82887: There is a warning when opening a model.



- HC83200: MML type model to model => entity to entity migration: Action required.
- HC83814: There is no extraction of passing planes on VPM.
- HC83996: Error 744 when reading a dr model from the PSN graph.
- HC84033: It is impossible to manage document revision using DMUSLF.
- HC84902: The *File=>Save* command in CATIA updates frozen Parts.
- HC85180: Some volumes in the tree are wrongly propagated.
- HC85372: There is a problem in the catcsbad.
- HC85860: The cgr stored in datalinks is not updated after the V4 model is modified.
- HC85938: A model cannot be stored using DBLFCAT.
- HC85967: A model cannot be stored using DBLFCAT.
- HC86219: There is no way to redirect the /tmp.
- HC86590: The Identify Loaded Models results are partial in the PSN.
- HC86785: Chamfer FD&T dimensioning is split into two when in the VPM assembly context.
- HC87012: When executing the *File=>Save* command, VPM cannot be found to save a model.  
An error occurred in the Japanese environment.
- HC87755: There is a performance problem loading the FD&T function on an assembly coming from VPM.
- HC87890: No trace file is generated in the QP035AMP output + DMUSLF problem
- HC87969: The 4DNav tessellation batch failed with a VPM database.
- HC88222: There is a problem with a New Version function in DB2.
- HC89043: There is a QP035AMP crash when a file contains more than 1000 models.
- HC89158: When you version a Part, the tolerances are not updated.
- HC89303: There is a core dump with a union on two empty spacemaps.
- HC89307: There is a core dump when loading the model with a MML on the manufacturing type.
- HC89784: Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdbatch.sh 26295 segmentation fault. DBLDRW entry issued.
- HC90047: An abend occurs when opening a V5 model in V4.
- HC90206: A DMUSLF user exit does not reference the type of model created.
- HC90465: There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
- HC91296: Box zoning does not work Project-comprehensive
- HC91642: A twin model cannot be opened in CATIA V4 after a new version.
- HC91658: Backup management for saved versions of CATIA models.
- HC91750: Save All with VPM and CATIA model
- HC92272: The QP035AMP process is triggered when saving a model on HP.
- HC92618: E3D CDMA Parts cannot be accessed if the VPM (or CDM) environment exceeds five characters.
- HC92705: After closing a 4DNav session started from VPM, it cannot be restarted.
- HC93487: A model with a voxel size of 5mm cannot be stored in VPM.

## Cumulative Fixes PTF9

OS	UH	OS	UH	OS	UH	OS	UH
IX	UH00408	HP	UH00393	SG	UH00404	SU	UH00405
IX	UH00390	HP	UH00398	SG	UH00392	SU	UH00406
IX	UH00395	HP	UH00407	SG	UH00401	SU	UH00394
IX	UH00396	HP	UH00399	SG	UH00402	SU	UH00397
IX	UH00403	HP	UH00400	SG	UH00389	SU	UH00391

## Free Text PTF9

<b>Action</b>	<ul style="list-style-type: none"> <li>• HC91796: The visualization of an Action proposed effectivity is too restrictive.</li> <li>• HC95195: There is an abend S0011 after promoting an Action to be completed.</li> <li>• HC94544: There is a problem with the Publish/Subscribe functions and secondary ID actions.</li> </ul>
<b>Admin</b>	<ul style="list-style-type: none"> <li>• HC94405: <code>catcdma.VPM.CFGDB.QUERY</code> is not declared.</li> <li>• HC95573: The user exit <code>GetInputListOfValues()</code> gives an incorrect return code 0 for static INT <code>IsVPMSessionInteractive()</code> where it should be a 1.</li> <li>• HC96666: A STEP AP203 / AP214 export from VPM produces CatParts with illegal characters.</li> </ul>
<b>APIs and User Exits</b>	<ul style="list-style-type: none"> <li>• User exit to control operation on rules / packages / matrix</li> <li>• User exit to control operation on milestones</li> <li>• API to modify the visibility of an existing configuration handler</li> <li>• Add visibility parameter to <code>CATCfgInterfaces::CreateConfigHandler</code></li> <li>• API to get action history used to configure a link</li> <li>• API to get Set Configurable types on a Part</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• HC81880: When loading models, if you activate the contextual menu, the current session is locked.</li> <li>• HC90926: Unnecessary information [1] is also pasted into the Part Number field when <code>Relation-&gt;Get All Components</code> is used.</li> <li>• HC92722: Associating the model in the PSN is not well managed.</li> </ul>

	<ul style="list-style-type: none"> <li>• HC92948: There is an abend S004 after opening a model in CATIA from the PSN.</li> <li>• HC94062: The setup of the S_TYPE_REP declaration is not reflected in the Zone Filter result.</li> <li>• HC94491: The XCAD server does not calculate the .cgr, 3dmap and .model files.</li> <li>• HC94494: The user exit <i>AuthorisedDuplicatedRepresentations</i> does not return an error message.</li> <li>• HC94689: There is a problem when we request the volume of a Part in the PSN if the setting <code>catcdma.VPM.EXPAND.PTF</code> is activated.</li> <li>• HC94668: PSN filtering does not apply to an opened PSN.</li> <li>• HC94698: The Multisite import/export daemon does not support datalinks.</li> <li>• HC94960: New children in the PSN are not displayed.</li> <li>• HC95671: The <i>Save Graph Session</i> and <i>Open Graph Session</i> operations do not take care of the default configuration set.</li> <li>• HC95713: Short or long messages do not come out with <i>AfterCommitUserAction</i>.</li> <li>• HC96031: VPM interoperability: Malfunction of <i>Identify Loaded Models</i> in the PSN - Error 20356 - 1 model has not been found.</li> <li>• HC73378: VPM and ws are locked when selecting a new function in the main panel with a new value in the <i>Simple Query</i> field.</li> <li>• HC89560: There is a S0010 crash when a Part is moved outside the <i>Set Current</i> scope.</li> </ul>
<b>CFG</b>	<ul style="list-style-type: none"> <li>• HC95938: Lost configuration handler when new version</li> </ul>
<b>ITVPMCV5</b>	<ul style="list-style-type: none"> <li>• HC95551: New versions of Assembly drawings lose links.</li> <li>• HC96027: VPM crashes when opening from the PSN an assembly with a fix together constraint.</li> </ul>
<b>ITVPMNT</b>	<ul style="list-style-type: none"> <li>• HC95509: There is a severe performance problem when loading an assembly from VPM NT to CATIA V5.</li> </ul>
<b>Miscellaneous</b>	<ul style="list-style-type: none"> <li>• Open .psn saved as document into VPM Flag: <code>catcdma.GRAPHSESSION.DOC : LOGICAL ;</code> <code>catcdma.GRAPHSESSION.DOC = TRUE;</code></li> <li>• Add Companion access to the VPM help menu</li> <li>• Add User Galaxy access to the VPM help menu</li> </ul>
<b>MML</b>	<ul style="list-style-type: none"> <li>• HC91780: V5 interoperability: Incorrect MML after a new revision</li> </ul>

	<ul style="list-style-type: none"> <li>• HC93018: VPM1.5 PTF5 - <i>ChangeModelUUID</i></li> </ul>
<b>NT Server</b>	<ul style="list-style-type: none"> <li>• Define effectivity</li> <li>• Edit effectivity</li> <li>• Config analysis</li> <li>• Branch analysis</li> <li>• Child analysis</li> <li>• Parent analysis</li> <li>• Commit with history</li> <li>• Modification status (on action)</li> </ul>
<b>PSN</b>	<ul style="list-style-type: none"> <li>• Automatically display report on commit failed Flag: <code>catcdma.VPM.COMMIT.ERROR_AUTO_REPORT : LOGICAL ;</code> <code>catcdma.VPM.COMMIT.ERROR_AUTO_REPORT = TRUE ;</code></li> </ul>
<b>STEPITFE</b>	<ul style="list-style-type: none"> <li>• HC95924: VPM STEP Import prereqs: <code>catcdma.STEP.OVERWRITE.REP.IMPORT=TRUE</code></li> <li>• HC95928: VPM STEP Import cannot write V5 doc with D_PATH not null</li> </ul>

## PTF10 Update

### REMEMBER to rebuild the user exits!

A user exit sample resides under `$VPM/code/sample`.

### Compare with Database Command

You will remember that the *Compare with Database* command did not take into account:

- what is displayed (a collapsed branch will be compared)
- the configuration filter (a filtered part will be compared)
- the CSB filter (a filtered Part will be compared).

This has been corrected and this now works in a similar fashion to the *Compare graph* function.

This means that there are now two comparison modes: links or leaves.

## Security Process

Application	Function	Command	Engineer	Administrator	Product Engineer	Purpose
VPM	BOM	BackupManagement	x	x	x	Manages the Backup Management panel in VPM.

## C++ Compiler Prerequisites

Under **AIX**, the following C++ compiler levels are not supported: xIC.rte 5.0.2.4, 5.0.2.5 and 5.0.2.6.

## New Declaration Parameters

- catcdma.VPM.OPT\_GRAPH.HIDE\_REJECTED\_MNGT
- catcdma.VPM.EXPAND.INQMARK
- catcdma.VPM.CFGDB.MAX\_ARG

## New Trigger Version to Optimize the Expand

A new version of database triggers to maintain C\_COUNT is provided.

Delete triggers have been improved to compute the exact number of the remaining sons for a Part.

## Updating Tables

For each environment play the update *1\_EXT script sql* .

## DB2

1. Run the DB2 script update *1\_EXT.clp* which is in *\$HOME/InstallVPM/reffiles/DBMS/ddl* of the VPM administrator before replacing VPMENV with the environment name and VPMADM with the VPM administrator name.

## Oracle

1. Run the Oracle script update *1\_EXT.sql* which is in *\$HOME/InstallVPM/reffiles/DBMS/ddl* of the VPM administrator before replacing VPMENV with the environment name and VPMADM with the VPM administrator value.

## Script Update 1\_EXT.sql

When migrating to PTF10, the script update *1\_EXT.sql* must be modified as follows:

The line:

```
grant execute on VPMENV.EXT_PKG to public ;
```

must be added after creating the package *VPMENV.EXT\_PKG*.

When the scripts *update1\_EXT.sql* and *update\_FEATURE.sql* are launched, you must be connected to VPMENV.

## Minimizing the Required Memory on the Database Server during the Expand

There are two declaration parameters to control needed memory on the Database Server (for example *APP\_CTL\_HEAP\_SZ* for the UDB server).

- for Product Structure queries:  
`catcdma.VPM.EXPAND.INQMARK : INTEGER ;`
- for configuration queries:  
`catcdma.VPM.CFGDB.MAX_ARG : INTEGER ;`

These declaration parameters control the number of values in queries such as: `WHERE $COID IN (?,?, ...)`.

You can change these default values, but if you do so, exercise caution.

If you use a larger number, you minimize the number of queries on the server but you need more server memory.

If the number you choose is below 75 you need less memory on the server but you increase the number of queries.

The default values are as follows:

- `catcdma.VPM.EXPAND.INQMARK = 250 ;`
- `catcdma.VPM.CFGDB.MAX_ARG = 200 ;`

To minimize *APP\_CTL\_HEAP\_SZ* on a UDB 7.2 server you can set `CATCDMA.VPM.CFGDB.MAX_ARG` to 100.

## Performance Improved When Saving DMU V5 Applicative Containers

Performance when saving DMU V5 applicative containers in VPM has been enhanced.

To implement this, you must set the following declaration parameters:

- in `VPMcatcdma.VPM.PERFO_CONTAINER_V5=TRUE ;`
- in `V5 export CV5_VPM_PERFOCONT=1 ;`

To avoid incompatibility, make sure the VPM declaration parameter is correctly set.

## STEP\_NAME

Just as for any non-persistent attribute, i.e. not originating from the database, it is imperative that you first of all regenerate the *cdma.express* file by means of the shell *catpsninst.sh* .

## Backup Management

Backup management implementation requires the following APARs:

AIX HC97527  
 HP HC97528  
 SG HC97529  
 SUNHC97530

## ComputeUserValueBeforeWrite

To activate the user exit *ComputeUserValueBeforeWrite*, you must export the following variable:

```
export CATComputeUserValueBeforeWrite=YES
```

This variable is set to *NO* by default.

## Prerequisite Interoperability PTFs

### CATIA 424-1

The following PTFs are mandatory:

no APAR	Description
HC66598	Tools->Open Editor: If the editor window size is increased no text can be written.
HC83814	There is no extraction of passing planes on VPM.
HC84902	The <i>File=&gt;Save</i> command in CATIA updates frozen Parts.
HC86590	The Identify Loaded Models results are partial in the PSN.
HC86219	There is no way to redirect the /tmp.
HC88222	There is a problem with a New Version function in DB2.



HC89784	Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdblbatch.sh 26295 segmentation fault. DBLDRW entry issued.
HC91642	A twin model cannot be opened in CATIA V4 after a new version.

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFs associated with commonly used functions such as SOLIDE:

no APAR	Function	Description
HC87969	4DNAV	The 4DNav tessellation batch failed with a VPM database.
HC92705	4DNAV	After closing a 4DNav session started from VPM, it cannot be restarted.
HC95918	4DNAV	Models move incorrectly in 4DNav.
HC83996	AUXVIEW2	Error 744 when reading a dr model from the PSN graph.
HC89307	CATMFG	There is a core dump when loading the model with an MML on the manufacturing type.
HC85180	CSB	Some volumes in the tree are wrongly propagated.
HC85372	CSB	There is a problem with the catcsbad.
HC87890	CSB + SAVE	No trace file is generated in the QP035AMP output + DMUSLF problem
HC89043	CSB	There is a QP035AMP crash when a file contains more than 1000 models.
HC91296	CSB	Box zoning does not work Project-comprehensive
HC92272	CSB	The QP035AMP process is triggered when saving a model on HP.
HC93487	CSB	A model with a voxel size of 5mm cannot be stored in VPM.
HC85860	DATABASE	The cgr stored in datalinks is not updated after the V4 model is modified.
HC92618	E3D	E3D CDMA Parts cannot be accessed if the VPM (or CDM) environment exceeds five characters.
HC86785	FD&T	Chamfer FD&T dimensioning is split into two when in the VPM assembly context.
		There is a performance problem loading the FD&T function on an assembly

HC87755	FD&T	coming from VPM.
HC89158	FD&T	When you version a Part, the tolerances are not updated.
HC83200	MML	MML type model to model => entity to entity migration: Action required.
HC82887	OPEN	There is a warning when opening a model.
HC90047	OPEN	An abend occurs when opening a V5 model in V4.
HC84033	SAVE	It is impossible to manage document revision using DMUSLF.
HC85938	SAVE	A model cannot be stored using DBLFCAT.
HC85967	SAVE	A model cannot be stored using DBLFCAT.
HC87012	SAVE	When executing the <i>File=&gt;Save</i> command, VPM cannot be found to save a model. An error occurred in the Japanese environment.
HC87890	CSB + SAVE	No trace file is generated in the QP035AMP output + DMUSLF problem
HC90206	SAVE	A DMUSLF user exit does not reference the type of model created.
HC90465	SAVE	There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
HC91658	SAVE	Backup management for saved versions of CATIA models.
HC91750	SAVE	Save All with VPM and CATIA model
HC82073	SKIN	Some errors are detected by the cleaner if the GSM model is loaded from VPMA and CATIA results in an abend at save.
HC81497	SOLIDE	The MML_SOL link is desynchronized after a save.
HC89303	SOLIDE	There is a core dump with a union on two empty spacemaps.

## CATIA 424-2

The following PTFs are mandatory:

no APAR	Description
HC89784	Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdbatch.sh 26295 segmentation fault. DBLDRW entry issued.

HC91639	Standard DS traces cause problems. The delivery for UB97943, UB97941, UB97942, UB97944 is incomplete.
---------	---

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFS associated with commonly used functions such as SOLIDE:

no APAR	Function	Description
HC92705	4DNAV	After closing a 4DNav session started from VPM, it cannot be restarted.
HC95918	4DNAV	Models do not move correctly.
HC89307	CATMFG	There is a core dump when loading the model with a MML on the manufacturing type.
HC89043	CSB	There is a QP035AMP crash when a file contains more than 1000 models.
HC89303	CSB	There is a core dump with a union on two empty spacemaps.
HC91296	CSB	Box zoning does not work Project-comprehensive
HC92046	CSB	VPM/CATIA lock in the spacemap.
HC92272	CSB	The QP035AMP process is triggered when saving a model on HP.
HC93336	CSB	VPM/CATIA lock in the spacemap (part 2).
HC93487	CSB	A model with a voxel size of 5mm cannot be stored in VPM.
HC97304	CSB	The spacemap filter does not work properly with a model.
HC98203	CSB	Modification on CSB volume algorithm
HC90454	MML	Change UUID also keeps the link to the original version of the model.
HC90047	OPEN	An abend occurs when opening a V5 model in V4.
HC95245	OPEN	V5->V4 interoperability: V4 delivery for compatibility with V5 command Send To
HC90206	SAVE	A DMUSLF user exit does not reference the type of model created.
HC90465	SAVE	There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
HC91658	SAVE	Backup management for saved versions of CATIA models.
HC91750	SAVE	Save All with VPM and CATIA model

## Cumulative Fixes PTF10

OS	UH	OS	UH	OS	UH	OS	UH
IX	UH00724	HP	UH00720	SG	UH00731	SU	UH00717
IX	UH00734	HP	UH00722	SG	UH00729	SU	UH00716
IX	UH00737	HP	UH00719	SG	UH00730	SU	UH00715
IX	UH00721	HP	UH00727	SG	UH00733	SU	UH00718
IX	UH00735	HP	UH00732	SG	UH00725	SU	UH00714

## Free Text PTF10

<b>Action</b>	<ul style="list-style-type: none"> <li>• HC96872: An SDAI error and an abend S004 occur with an advanced query on an Action.</li> <li>• HC96382: An Action cannot always be transferred correctly.</li> </ul>
<b>Admin</b>	<ul style="list-style-type: none"> <li>• HC95273: The CatDMUsrSelect class does not result in the correct result when an SQL select statement is executed using the <i>Group By</i> function.</li> <li>• HC97429: The DBLFCAT repository does not work correctly.</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• HC91970: There is a problem with the panel result of <i>More...</i></li> <li>• HC95374: Applying a query in VPMAccess results in an abend.</li> <li>• HC96541: A query on VPM Actions does not work if the criterion is an Organization.</li> <li>• HC96861: A Graphics PSN session crashes VPM.</li> <li>• HC97021: There is an error when <i>Associate New Model</i> is used in a PSN if a view exists on PART_LIST.</li> <li>• HC97332: New document revisions and new model revisions cannot be created on a customized environment.</li> <li>• HC97390: Wrong C_COUNT values affect the PSN expand.</li> <li>• HC97485: An abend occurs when a Part attribute of the Date type is defined in the profile for instance management.</li> <li>• HC97104: In the rename panel of the PSN, attributes are not updated after the first rename.</li> </ul>

	<ul style="list-style-type: none"> <li>• HC97906: A delimiter field is missing in the <i>Print Part list</i> in the PSN.</li> </ul>
<b>CFG</b>	<ul style="list-style-type: none"> <li>• HC96463: There is a problem with the date less than or equal to 01/01/1970 on the link executing certain functions such as <i>Replace</i>.</li> <li>• HC96773: VPM crashes when the PSN is opened on a configuration with certain functions such as <i>Replace</i> and operators such as <i>AND</i>.</li> </ul>
<b>Multisite</b>	<ul style="list-style-type: none"> <li>• HC97173: XML multisite import does not import categories or options.</li> </ul>
<b>P&amp;O</b>	<ul style="list-style-type: none"> <li>• HC96184: Privilege creation results in an abend S0011 when at least two data groups are pasted after a search in the data group tab page.</li> </ul>
<b>PSN</b>	<ul style="list-style-type: none"> <li>• HC96896: Opening a PSN graph does not respect the collapsed branches with the collapsed brothers on a father function.</li> </ul>

## PTF11 Update

### REMEMBER to rebuild the user exits!

A user exit sample resides under `$VPM/code/sample`.

## Multisite

### New XML Capabilities

A new version of the command file is provided in `$VPM/reffiles/DBMS/VPMENTV_V2.xml`

For more information, read `$VPM/reffiles/DBMS/multisite_XML_guide.txt`

### Export

- column filtering  
For each table you can choose columns to be exported.
- representation filtering  
You can have filtering on representation tables and the `$EXT_LF` table.

## Import

- column filtering  
For each table you can choose columns to be imported.  
You cannot filter mandatory columns.

## Warning! Multisite Representation Filtering with XML

The `$EXT_LF` table must be the last "ontable" entry in the command file related to the "db" VPMProduct.

## Warning! Multisite Logging with DB2

You have to recreate logging tables using the script `$VPM/reffiles/DBMS/ddl/MS_LOG_DB2.clp`.  
Before doing this, replace VPMADM with the VPM Administrator value.

## New Declaration Parameters

- `catcdma.VPM.MML.CATIA_V5`
- `catcdma.VPM.MML.CATIA_V5_RELEASE_VALIDITY`

## ENOVIA VPM - SAP R/3 Interoperability

The VPM-SAP interoperability product has been enhanced in PTF11 to support:

- a multi-VPM environment
- mapping between VPM BOM (link information) and SAP BOM
- automatic synchronization of VPM Parts/models/documents from SAP materials/documents
- direct access to SAP material master data from PSN.

New SAP transports have to be applied (delivered in `$VPM/startup/VPMSAP1.5/Transports`). The files for modification of VPM tables are in the directory `$VPM/startup/VPMSAP1.5/ddl`.

The script `$VPM/code/command/vpm2sap.sh` describes all the UNIX variables to set for run-time.

## For a Future PTF: Changes to Existing Declaration Parameters

- [catcdm.DBLFAIX\\_ALGO](#)
- [catcdma.STORAGE.LF\\_METADATA](#)

### catcdm.DBLFAIX\_ALGO

The setting `DELETE_RR` is strongly recommended on both CATIA V4 and ENOVIA<sub>VPM</sub>.

WARNING! `DELETE_RR` will be hardcoded in a future PTF and its behavior at Create & Save time will be as follows:

- for a commit:
  - the new representation is kept and is usable
  - the old representation is deleted or renamed based on `catcdm.DBLFAIX_OLD_SUFFIX` .
- for a rollback:
  - the new representation is deleted or renamed based on `catcdm.DBLFAIX_OLD_SUFFIX` and is unusable
  - the old representation is kept as is and is usable.

Remember that a new file must be written at the time of each Create & Save. If the file already exists a 152 error is returned.

The `vpmm++` methods *ComputeValuesBeforeWrite* (which keeps the values in the `PART_LIST` and `CATIA_MODEL` or `DOCxxx` columns) and *CheckLFBeforeWrite* (which returns the access method name and data) of the user exit source *CATDMUsrMethod.cpp* enable you to compute the invariant portion of the file name (based on `S_PART_NUMBER`, `C_NICKNAME`, ...). *CATDMUsrMethod.cpp* is compiled and link-edited using *makeLV0XUSR.sh* .

The *DMUSLF* user exit allows you to compute the variable portion of the file name (counter, random value). *DMUSLF* is part of the *L2USEREX* module link-edited with the shared shell.

The *DMUSLF* user exit exists on both ENOVIA<sub>VPM</sub> and CATIA V4 but to activate it on the ENOVIA<sub>VPM</sub> side specify:

```
CATCDMA.CALL_TO_DMUSLF_FOR_DOCUMENT='YES'
```

### catcdma.STORAGE.LF\_METADATA

The setting `TRUE` is strongly recommended on both CATIA V4 and ENOVIA<sub>VPM</sub>.

WARNING! `TRUE` will be hardcoded in a future PTF and its behavior at Create & Save time will be as follows:

- The longfield is written before the metadata to shorten DBMS locks so a select from `PART_LIST` or `CATIA_MODEL` inside `DMUSLF` will not retrieve anything during the first write.

Be aware that:

- the `orchmod` user exit enables you to change (the owner and) the authorizations of a longfield file
- it is part of the `OB071USX` which is built using the `oruecl` shell
- it exists on both CATIA V4 and ENOVIA<sub>VPM</sub>
- it is called:
  - just after the close write time
  - just before the rename or delete time
- a sample written in c is delivered.

## For a Future PTF: Enhancement Required by Customer and DS Access Methods

The following concerns customers using any access method overwriting the longfield during the save operation.

To support the rewriting of a longfield (despite the illogicality of this operation since a rollback is not possible in such a case) on both CATIA V4 and ENOVIA<sub>VPM</sub>, a new declaration parameter is to be created:

```
catcdm.dblfaix_algo='DELETE_BM' ;
```

A new entry point must be implemented in all access methods: `RENAME` (to be added to existing `init read`, `open read`, `read`, `close read`, `purge read`, `init write`, ..., `purge write`, `delete`, `generate new access method data`). Customer access methods will have to implement `RENAME` but only if it is intended to use `DELETE_BM`.

The algorithm for 'write a representation' will be:

```
init write fic
. if BM: - init write fic.new
- if fic.new already exists: re-write
open write
write loop
```



```

close write
purge write
if commit:
delete fic
if BM: rename fic.new -> fic
if rollback:
if BM: delete fic.new
else: delete fic

```

Note that `catcdm.DBLFAIX_OLD_SUFFIX` remains valid.

A PTF will be corequisite for CATIA model write since the code is executed in CATIA processes (HC99292 and HC99343).

## Recommended Interoperability PTFs

### CATIA 424-1

The following PTFs are mandatory:

n° APAR	Description
HC66598	Tools->Open Editor: If the editor window size is increased no text can be written.
HC84902	The <i>File=&gt;Save</i> command in CATIA updates frozen Parts.
HC86590	The Identify Loaded Models results are partial in the PSN.
HC86219	There is no way to redirect the /tmp.
HC88222	There is a problem with a New Version function in DB2.
HC89784	Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdblbatch.sh 26295 segmentation fault. DBLDRW entry issued.
HC91642	A twin model cannot be opened in CATIA V4 after a new version.

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFS associated with commonly used functions such as SOLIDE:

n° APAR	Function	Description
HC87969	4DNAV	The 4DNav tessellation batch failed with a VPM database.
HC95918	4DNAV	Models do not move properly.
HC98650	4DNAV	The MfgProg function does not work for models opened from VPM.
HC83996	AUXVIEW2	Error 744 when reading a dr model from the PSN graph.
HC89307	CATMFG	There is a core dump when loading the model with an MML on the manufacturing type.
HC85180	CSB	Some volumes in the tree are wrongly propagated.
HC85372	CSB	There is a problem with the catcsbad.
HC87890	CSB + SAVE	No trace file is generated in the QP035AMP output + DMUSLF problem
HC89043	CSB	There is a QP035AMP crash when a file contains more than 1000 models.
HC91296	CSB	Box zoning does not work Project-comprehensive
HC92272	CSB	The QP035AMP process is triggered when saving a model on HP.
HC93487	CSB	A model with a voxel size of 5mm cannot be stored in VPM.
HC85860	DATABASE	The cgr stored in datalinks is not updated after the V4 model is modified.
HC92618	E3D	E3D CDMA Parts cannot be accessed if the VPM (or CDM) environment exceeds five characters.
HC86785	FD&T	Chamfer FD&T dimensioning is split into two when in the VPM assembly context.
HC87755	FD&T	There is a performance problem loading the FD&T function on an assembly coming from VPM.
HC89158	FD&T	When you version a Part, the tolerances are not updated.
HC83200	MML	MML type model to model => entity to entity migration: Action required.
HC82887	OPEN	There is a warning when opening a model.
HC90047	OPEN	An abend occurs when opening a V5 model in V4.
HC84033	SAVE	It is impossible to manage document revision using DMUSLF.
HC85938	SAVE	A model cannot be stored using DBLFCAT.
HC85967	SAVE	A model cannot be stored using DBLFCAT.

HC87012	SAVE	When executing the <i>File=&gt;Save</i> command, VPM cannot be found to save a model. An error occurred in the Japanese environment.
HC87890	CSB + SAVE	No trace file is generated in the QP035AMP output + DMUSLF problem
HC90206	SAVE	A DMUSLF user exit does not reference the type of model created.
HC90465	SAVE	There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
HC91658	SAVE	Backup management for saved versions of CATIA models.
HC91750	SAVE	Save All with VPM and CATIA model
HC82073	SKIN	Some errors are detected by the cleaner if the GSM model is loaded from VPMA and CATIA results in an abend at save.
HC81497	SOLIDE	The MML_SOL link is desynchronized after a save.
HC89303	SOLIDE	There is a core dump with a union on two empty spacemaps.

## CATIA 424-2

The following PTFs are mandatory:

n° APAR	Description
HC89784	Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdbatch.sh 26295 segmentation fault. DBLDRW entry issued.
HC91639	Standard DS traces cause problems. The delivery for UB97943, UB97941, UB97942, UB97944 is incomplete.
HC91642	A twin model cannot be opened in CATIA V4 after a new version.

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFs associated with commonly used functions such as SOLIDE:

n° APAR	Function	Description
HC92705	4DNAV	After closing a 4DNav session started from VPM, it cannot be restarted.

HC95918	4DNAV	Models do not move correctly.
HC89307	CATMFG	There is a core dump when loading the model with a MML on the manufacturing type.
HC89043	CSB	There is a QP035AMP crash when a file contains more than 1000 models.
HC89303	CSB	There is a core dump with a union on two empty spacemaps.
HC91296	CSB	Box zoning does not work Project-comprehensive
HC92046	CSB	VPM/CATIA lock in the spacemap.
HC92272	CSB	The QP035AMP process is triggered when saving a model on HP.
HC93336	CSB	VPM/CATIA lock in the spacemap (part 2).
HC93487	CSB	A model with a voxel size of 5mm cannot be stored in VPM.
HC97304	CSB	The spacemap filter does not work properly with a model.
HC98203	CSB	Modification on CSB volume algorithm
HC90454	MML	Change UUID also keeps the link to the original version of the model.
HC90047	OPEN	An abend occurs when opening a V5 model in V4.
HC95245	OPEN	V5->V4 interoperability: V4 delivery for compatibility with V5 command Send To
HC90206	SAVE	A DMUSLF user exit does not reference the type of model created.
HC90465	SAVE	There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
HC91658	SAVE	Backup management for saved versions of CATIA models.
HC91750	SAVE	Save All with VPM and CATIA model

## Cumulative Fixes PTF11

OS	UH	OS	UH	OS	UH	OS	UH
IX	UH01302	HP	UH01333	SG	UH01312	SU	UH01311
IX	UH01299	HP	UH01314	SG	UH01332	SU	UH01317
IX	UH01309	HP	UH01318	SG	UH01316	SU	UH01319
IX	UH01331	HP	UH01308	SG	UH01330	SU	UH01307

IX	UH01313	HP	UH01303	SG	UH01300	SU	UH01325
IX	UH01296	HP	UH01305	SG	UH01328	SU	UH01323
IX	UH01329	HP	UH01324	SG	UH01326	SU	UH01322
IX	UH01320	HP	UH01301	SG	UH01310	SU	UH01306

## Free Text PTF11

<b>Admin</b>	<ul style="list-style-type: none"> <li>• HC99010: The structure element <i>Error.ShortMsg</i> is badly evaluated in the API.</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• HC97285: The Paste context results in an error when creating a document.</li> <li>• HC97874: Printing BOM from the PSN does not work properly when double quotes are used.</li> <li>• HC97320: The configuration history is wrong.</li> <li>• HC92709: The options of <code>catcdm.DBLFLAIX_ALGO</code> are not described.</li> <li>• HC98469: The <i>Compare Graph</i> function does not work properly.</li> <li>• HC98026: The link name was lost in the BOM following a model move in CATIA.</li> <li>• HC96351: Instance attributes were lost following MODELS/MODIFY/TRANSLATE.</li> <li>• HC98977: PSN - Transformation stored BOM - MDL link.</li> <li>• HC98668: A second attempt at a STEP export of a Part + model using the same name results in an S0006 abend.</li> <li>• HC96368: The data does not check out successfully.</li> <li>• HC97797: The attribute <code>C_lastmod</code> is not modified after a rename in VPMA.</li> <li>• HC70242: The message 'Problem in the method copy' when using Tab Char.</li> <li>• HC97902: PSN Replace from clipboard: There is a problem after <i>Filter by Volume</i>.</li> </ul>
<b>CFG</b>	<ul style="list-style-type: none"> <li>• HC98829: From the Action, removing a link created by the <i>Replace</i> function, does not delete the link, only the effectivity.</li> </ul>
<b>DBAccess</b>	<ul style="list-style-type: none"> <li>• HC98900: The first model of a multifolio Part is deleted.</li> </ul>
<b>Install</b>	<ul style="list-style-type: none"> <li>• HC98900: The non-declared parameter <code>catcdma.STORAGE.LF_METADATA</code> is not defined in <code>/site/dec/catcdma.dcls</code>.</li> </ul>
<b>Interop</b>	<ul style="list-style-type: none"> <li>• HC98769: A File/Save of a model cannot be performed after abend and warm start in CATIA.</li> <li>• HC98236: Delivery of VPM 1.5 interface with SAP</li> </ul>

<b>ITVPMCV5</b>	<ul style="list-style-type: none"><li>• HC98251: Double-clicking twice on a CATPart results in a loop.</li><li>• HC98166: Wrong positioning when saving a V5 assembly to VPM.</li></ul>
<b>Multisite</b>	<ul style="list-style-type: none"><li>• HC99080: There is a problem when we do a Pub/Sub on events with replication on two sites in two steps.</li><li>• HC98156: There is an IXF import crash at random.</li></ul>

## PTF12 Update

### REMEMBER to rebuild the user exits!

A user exit sample resides under `$VPM/code/sample`.

### Action Creation: Warning!

A problem has been found during Action creation. It occurs on all operating systems but ONLY on the Oracle database. (It does not happen on DB2.)

#### Scenario

1. Launch ENOVIA<sub>VPM</sub>.
2. Object: Action
3. Create & save an Action.
4. Search for all Actions, you can see your new Action.
5. Object: Part
6. Search for one Part.
7. Object: Action
8. Search for all Actions, you can no longer see the Action created in step 3.

## Corrective Action

A patch is already available with the appropriate installation procedure.  
Please contact L1 for further instructions.

## DBFLCAT

If you use DBLFCAT as a repository method, to delete the *.model*, you must add the following line in your declaration file (usually *CATCDM.dcls*):

```
CATCDM.DBCONN.ORACLE.MODULE = 'JD055CAT' ;
```

## New Declaration Parameters

- catcdma.PSN.REPLACE\_CUSTOM

## Configuration

- To add LAST\_MODIFIER\_ID and LAST\_UPDATE\_DATE to categories, options and rules in the dictionary manager:  
CATCDMA.VPM.OPT\_DICO.SHOW\_LAST\_MOD = TRUE (LOGICAL)
- To save the last products used (for options, milestones and config-handlers) in a file, check the corresponding option in *File->Settings / Configuration*
- To display more info about Actions in configuration parameter panels (*Edit Configuration*, etc.) customize attributes using the resource file *CATVPMDlgCfgList* (default = action name + action description)
- To add a rapid selection field in the dictionary graph (by keying in the options):  
CATCDMA.VPM.OPT\_GRAPH.RAPID\_SELECT\_MNGT = 'STANDARD' or 'SMART' (STRING)

where 'STANDARD' allows you to select, in the graph, the key-in options in the graph (a simple option or an expression such as *option1 & option2 & ...*) and 'SMART' enables the highlight in the graph during key-in options with the possibility to select by keying in only the beginning of the option name.

- The existing date, range and milestones (if any) are propagated when you add a new row in the info-link panel.
- To manage the *Define effectivity* function on models, documents and features:  
CATCDMA.VPM.EXPAND.CONFIGURABLE\_REPS = TRUE (LOGICAL)  
CATCDMA.VPM.EXPAND.CONFIGURABLE\_FEATURES = TRUE (LOGICAL)
- To add *Copy effectivity* and *Paste effectivity* to the Configuration contextual menu to copy the existing effectivity defined on a link to another one:  
CATCDMA.VPM.COPY\_PASTE\_EFF = TRUE (LOGICAL)

#### WARNING!

- *Paste effectivities* becomes *Extend available modifications from clipboard*
- *Delete pasted effectivities* becomes *Remove extended modifications*.

#### Instances

- To update impacted instances after replacing with a version of the same Part on the intermediate level:  
CATCDMA.VPM.INSTANCE.UPDATE\_MOVE\_REPLACE = TRUE (LOGICAL)
- To copy the defined instances after the versioning of a root Part:  
CATCDMA.VPM.INSTANCE.UPDATE\_NEW\_VERSION = TRUE (LOGICAL)
- There is an enhancement on open instances in the PSN.

## Disconnect Mechanism at VPM Transaction Closure

There is a new mechanism which closes the database connection at the end of each VPM transaction. To implement this add the following CATIA declaration parameter:

```
CATCDM.END_TRANSACTION_RELEASE_CONNECT : LOGICAL ;
```



The default value is `FALSE` (i.e. the same behavior as for the previous version). The setting `TRUE` closes the DB connection at the end of each transaction. A reconnect is done automatically at the first call which starts a database transaction.

## Launching VPMInstall.sh

Before launching `VPMInstall.sh`, once the administrator has been updated, modify the script `$CAT_CUST/code/bin/VPMInstall_check.sh` by replacing:

```
if [ -f "$HOME/JD061DB2 ] ; then  
(line 1990)
```

with:

```
if [ -f "$HOME"/JD061DB2 ] ; then
```

## Optimizing VPM with UDB Version 7.2 Fixpack 7

To change the UDB server settings:

```
db2set DB2_INLIST_TO_NLJN=YES
```

There are two declaration parameters to set the UDB/DB2 query optimization level:

- for product structure queries:  
`CATCDMA.VPM.EXPAND.DB2_QUERY_OPTIMIZATION_LEVEL : INTEGER ;`
- for configuration queries:  
`CATCDMA.VPM.CFGDB.DB2_QUERY_OPTIMIZATION_LEVEL INTEGER ;`

### Recommended Values

- `CATCDMA.VPM.EXPAND.DB2_QUERY_OPTIMIZATION_LEVEL = 5 ;`
- `CATCDMA.VPM.CFGDB.DB2_QUERY_OPTIMIZATION_LEVEL = 7 ;`

## For Other Queries

The query optimization level is done with the following declaration parameter:

```
CATCDMA.VPM.DEFAULT.DB2_QUERY_OPTIMIZATION_LEVEL : INTEGER ;
```

Remember other expand optimization possibilities.

There are two declaration parameters to check required memory on the database server (for example `APP_CTL_HEAP_SZ` for the UDB server):

- for product structure queries:  
`CATCDMA.VPM.EXPAND.INQMARK : INTEGER ;`
- for configuration queries:  
`CATCDMA.VPM.CFGDB.MAX_ARG : INTEGER ;`

These declaration parameters check the number of values in queries such as `WHERE $COID IN ( ?,?, ...)`. You can change these default values, but exercise great caution if you decide to do so.

If you use a larger number, you minimize the number of queries on the server but you need more memory on the server.

If you use a number lower than 75, you need less memory on the server but you increase the number of queries.

The default values are:

- `CATCDMA.VPM.EXPAND.INQMARK = 250 ;`
- `CATCDMA.VPM.CFGDB.MAX_ARG = 200 ;`

## New Multisite XML Tag in the Command File

There is a new optional "specials" tag. It is used at export to convert special characters.

<b>specials</b> information item
specialstext ::= "   *   collist   '--' (collist) collist ::= colname , ( collist )*   colname colname ::= string
char and varchar columns which can contain characters to be converted: & , < and >
Remarks: Used only for columns which can contain such characters
Example: <specials>C_NICKNAME </specials>

## Recommended Interoperability PTFs

### CATIA 424-1

The following PTFs are mandatory:

n° APAR	Description
HC66598	<i>Tools-&gt;Open Editor</i> . If the editor window size is increased no text can be written.
HC84902	The <i>File=&gt;Save</i> command in CATIA updates frozen Parts.
HC86590	The Identify Loaded Models results are partial in the PSN.
HC86219	There is no way to redirect the /tmp.
HC88222	There is a problem with a New Version function in DB2.
HC89784	Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdbatch.sh 26295 segmentation fault. DBLDRW entry issued.
HC91642	A twin model cannot be opened in CATIA V4 after a new version.

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFS associated with commonly used functions such as SOLIDE:

n° APAR	Function	Description
HC87969	4DNAV	The 4DNav tessellation batch failed with a VPM database.
HC95918	4DNAV	Models do not move properly.
HC98650	4DNAV	The MfgProg function does not work for models opened from VPM.
HC83996	AUXVIEW2	Error 744 when reading a dr model from the PSN graph.
HC89307	CATMFG	There is a core dump when loading the model with an MML on the manufacturing type.
HD00127	CDM	CDM interoperability: UB98558 breaks DATABASE + WRITE + EXT_OBJ
HC85180	CSB	Some volumes in the tree are wrongly propagated.
HC85372	CSB	There is a problem with the catcsbad.
HC87890	CSB + SAVE	No trace file is generated in the QP035AMP output + DMUSLF problem
HC89043	CSB	There is a QP035AMP crash when a file contains more than 1000 models.
HC91296	CSB	Box zoning does not work Project-comprehensive
HC92272	CSB	The QP035AMP process is triggered when saving a model on HP.
HC93487	CSB	A model with a voxel size of 5mm cannot be stored in VPM.
HC85860	DATABASE	The cgr stored in datalinks is not updated after the V4 model is modified.
HC92618	E3D	E3D CDMA Parts cannot be accessed if the VPM (or CDM) environment exceeds five characters.
HC86785	FD&T	Chamfer FD&T dimensioning is split into two when in the VPM assembly context.
HC87755	FD&T	There is a performance problem loading the FD&T function on an assembly coming from VPM.
HC89158	FD&T	When you version a Part, the tolerances are not updated.
HC83200	MML	MML type model to model => entity to entity migration: Action required.
HC82887	OPEN	There is a warning when opening a model.

HC90047	OPEN	An abend occurs when opening a V5 model in V4.
HC84033	SAVE	It is impossible to manage document revision using DMUSLF.
HC85938	SAVE	A model cannot be stored using DBLFCAT.
HC85967	SAVE	A model cannot be stored using DBLFCAT.
HC87012	SAVE	When executing the <i>File=&gt;Save</i> command, VPM cannot be found to save a model. An error occurred in the Japanese environment.
HC87890	CSB + SAVE	No trace file is generated in the QP035AMP output + DMUSLF problem
HC90206	SAVE	A DMUSLF user exit does not reference the type of model created.
HC90465	SAVE	There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
HC91658	SAVE	Backup management for saved versions of CATIA models.
HC91750	SAVE	Save All with VPM and CATIA model
HC98768	SAVE	VPM interoperability: File/Save cannot be performed on a model after an abend then a warm start in CATIA.
HC82073	SKIN	Some errors are detected by the cleaner if the GSM model is loaded from VPMA and CATIA results in an abend at save.
HC81497	SOLIDE	The MML_SOL link is desynchronized after a save.
HC89303	SOLIDE	There is a core dump with a union on two empty spacemaps.

## CATIA 424-2

The following PTFs are mandatory:

n° APAR	Description
HC89784	Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdblbatch.sh 26295 segmentation fault. DBLDRW entry issued.
HC91639	Standard DS traces cause problems. The delivery for UB97943, UB97941, UB97942, UB97944 is incomplete.

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFs associated with commonly used functions such as SOLIDE:

n° APAR	Function	Description
HC92705	4DNAV	After closing a 4DNav session started from VPM, it cannot be restarted.
HC95918	4DNAV	Models do not move correctly.
HC89307	CATMFG	There is a core dump when loading the model with a MML on the manufacturing type.
HC89043	CSB	There is a QP035AMP crash when a file contains more than 1000 models.
HC89303	CSB	There is a core dump with a union on two empty spacemaps.
HC91296	CSB	Box zoning does not work Project-comprehensive
HC92046	CSB	VPM/CATIA lock in the spacemap.
HC92272	CSB	The QP035AMP process is triggered when saving a model on HP.
HC93336	CSB	VPM/CATIA lock in the spacemap (part 2).
HC93487	CSB	A model with a voxel size of 5mm cannot be stored in VPM.
HC97304	CSB	The spacemap filter does not work properly with a model.
HC98203	CSB	Modification on CSB volume algorithm
HC90454	MML	Change UUID also keeps the link to the original version of the model.
HC90047	OPEN	An abend occurs when opening a V5 model in V4.
HC95245	OPEN	V5->V4 interoperability: V4 delivery for compatibility with V5 command Send To
HC90206	SAVE	A DMUSLF user exit does not reference the type of model created.
HC90465	SAVE	There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
HC91658	SAVE	Backup management for saved versions of CATIA models.
HC91750	SAVE	Save All with VPM and CATIA model
HC98768	SAVE	VPM interoperability: File->Save cannot be performed on a model after an abend then a warm start in CATIA.

## Cumulative Fixes PTF12

OS	UH	OS	UH	OS	UH	OS	UH
IX	UH01628	HP	UH01629	SG	UH01630	SU	UH01627
IX	UH01631	HP	UH01632	SG	UH01633	SU	UH01634
IX	UH01637	HP	UH01636	SG	UH01639	SU	UH01635
IX	UH01645	HP	UH01640	SG	UH01641	SU	UH01638
IX	UH01647	HP	UH01642	SG	UH01648	SU	UH01643
IX	UH01650	HP	UH01644	SG	UH01649	SU	UH01646

## Free Text PTF12

<b>ADMBASE</b>	<ul style="list-style-type: none"> <li>• HC99320: When using the option <i>Update Representations</i> we get the message ACC RUNTIME: ERROR 215 FROM SHL_FINDSYM.</li> <li>• HC99317: Acc runtime error when using <i>VPMStart.sh kill_XCAD</i> we get the message ACC RUNTIME: ERROR 215 FROM SHL_FINDSYM.</li> </ul>
<b>AFL</b>	<ul style="list-style-type: none"> <li>• HC99816: After an Action transfer, the organization is not immediately updated.</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• HC98469: The <i>Compare graph</i> function does not work properly.</li> <li>• HC99192: Saving the PSN and effectivities is not possible.</li> <li>• HD00617: The reading of the dynamic PSN is not compliant.</li> <li>• HC99655: The option PSN_NO_SORT does not work.</li> <li>• HC99913: Authorized Cut does not show a pop-up.</li> <li>• HC99605: The declaration parameter</li> </ul>

	<p><code>catcdma.VPM.REVISION.KEEP_RESPONSIBLE</code> is not documented.</p> <ul style="list-style-type: none"> <li>• HC98434: There is an ergonomic problem with the <i>Rename</i> function.</li> <li>• HD00056: An abend occurs during a cut/copy/paste in the PSN.</li> <li>• HC99934: <i>Replace Where Used</i> causes a <code>catcdma.VPMA.SEL_WU</code> error.</li> <li>• HC99643: There is a wrong date value after <i>Edit Instance</i> in the PSN.</li> <li>• HC98949: <code>C_COMMENT</code> is lost after translating a model in CATIA.</li> <li>• HD00408: The print result in HTML fails to open Netscape.</li> <li>• HC92709: The options of <code>catcdm.DBLFLAIX_ALGO</code> are not described.</li> <li>• HC90512: VPM hangs on startup.</li> <li>• HD00814: There is a problem when saving a <i>.psn</i> created from a PSN expand with a configuration where the date is set to infinity.</li> <li>• HD00545: When we filter a PSN by volume, save it in a <i>.psn</i> and recall it dynamically, we get too many Parts.</li> <li>• HD00034: The VPM filter cannot be used in batch mode.</li> </ul>
<b>ITVPMCV4</b>	<ul style="list-style-type: none"> <li>• HC98757: A problem occurs when creating a new version having a CATIA V5 document and its associated model.</li> <li>• HC98616: The associativity between the model and the CATPart is lost when the XCAD server crashes.</li> </ul>
<b>ITVPMCV5</b>	<ul style="list-style-type: none"> <li>• HC98574: VPM interoperability: Versioning a with contextual link and a constraint link does not work properly</li> <li>• HD00321: VPM interoperability: The comment in the XML message for error 20612 is wrong.</li> <li>• HD00070: VPM interoperability: The short and long messages are not displayed in the incident report panel of CATIA V5.</li> </ul>
<b>MML</b>	<ul style="list-style-type: none"> <li>• HC97629: VPM interoperability: MML stays linked to the old version after a new version has been created.</li> </ul>
<b>P&amp;O</b>	<ul style="list-style-type: none"> <li>• HC98186: <i>Tools-&gt; Execute CATIA V5</i> is available even if the user does not have the privilege to launch CATIA V5.</li> <li>• HC98196: Print BOM PSN: There is a problem with the null value for numeric attributes.</li> </ul>

## PTF13 Update



**REMEMBER to rebuild the user exits!**

A user exit sample resides under `$VPM/code/sample`.

**WARNING!**

**for ENOVIA<sub>VPM</sub> 1.5 (PTF11 / PTF12 / PTF13) / CATIA V5R10 (GA / SP1 / SP2 / SP3) users only**

**Problem Description**

When opening a V5 Part or doing a Create&Save on a V5 document from VPM, the current user and password are visible in the console as part of a xml file. This happens when using server authentication. When using system authentication, the user is also visible and the password space is reserved in quotation marks.

**Corrective Action**

A patch is already available for PTF11, PTF12 and PTF13 with the appropriate installation procedure. Contact L1 for further instructions.

**WARNING!**

In order to install VPM 1.5 PTF13 on ALL platforms:

**After** launching *catinst* but **before** launching *VPMInstall.sh* (*-oracle / -db2*), go into the VPM Administrator files (and the VPM user files) `$HOME/.profile` (dot profile) and `$HOME/.dtprofile` (dot dtprofile) and replace all occurrences of `/home/catadm` with the value `$HOME`. Log off then log on again and launch *VPMInstall.sh* (*-oracle / -db2*).

**WARNING!**

Do not, under any circumstances, put any customized library fixes or development modules into your VPM STEPLIB directory (usually `$CAT_CUST/code/steplib/$OS`) unless expressly requested to do so in the official documentation or by the VPM maintenance or development team. This is because the directory is shared with CATIA V4 and interaction between VPM and CATIA V4 may therefore be unpredictable.

## Clash Management

As of PTF13, to:

- **delete** a clash, you must declare the CLASH table in the variable `GLOBAL_$LIST_DELETE` in the profile
- **modify** a clash, you must declare the CLASH table in the variable `GLOBAL_$LIST_UPDATE` in the profile.

## Publish/Subscribe

### Feature Support

Features are now supported by the Publish/Subscribe mechanism. The following events are available:

- check-in
- check-out
- promote
- demote
- write
- rename.

Features are also made available in Publish/Subscribe cluster management, so it is possible to create implicit subscriptions for features.

Note that the events must be inserted in the database before the support is complete. This is done by means of the DLL scripts *update8\_PUSSUB.clp* and *update8\_PUSSUB.sql*, which can be executed by the post-install shell *VPMPostInstall.sh*.

## Interoperability

### Communication Time-Out

The time-out used by VPM when starting other applications through the inter-process communication layer (XCO) such as CATIA, can be overridden by setting the declaration parameter `catcdma.VPM.XCO.TIMEOUT` to the desired value (in seconds).

Note that setting it to a low value can make VPM (which expects an answer from the application) react faster if a problem occurs while starting the application (such as a licensing problem). However, if the application takes longer to start than that value, it can lead VPM to assume that the execution was unsuccessful and therefore return an error.

## Security

### New Security Process

The *VPM.BOM.ExportBOMToSpecXml* process is now available for the Administrator license. It is used to control access to the *BOM to SpecXML* export mechanism, for use between VPM (the NT server) and SmarTeam.

## Multisite

### Replication Tools

The VX0REPLS replication server now supports the option *-noabort* which, when activated, results in it ignoring possible replication errors and proceeding with subsequent requests, if any.

## Public APIs

- **CATDMUsrInstance**

The *Duplicate* method is now available in the BOM API *CATDMUsrInstance* in order to duplicate a Part object. The two modes available in VPM (full duplication of the Part, its assembly links and representations, or duplication of the Part and its assembly links only) are supported. For details, see the API documentation.

- **CATVpmUsrReplication**

The *Queue* method of the replication API *CATVpmUsrReplication* now supports object transfer, e.g. replication with transfer of the site ownership to the destination site. For details, see the API header.

## Configuration

### Configuration Database Migration from 1.5PTFx to 1.5PTF13

#### **DATABASE MIGRATION TO PTF 13 IS MANDATORY!!!**

There is a new script available to migrate the configuration database to 1.5 PTF13: `update6_CONFIG`.

If the script `update7_CONFIG` has already been executed in the database, it must be **re-executed** after `update6_CONFIG` to regenerate the table views.

### PSN Commit Performance

Increase commit performances in PSN when committing modifications under a configured Part.

### Miscellaneous

- The *CFG.CleanAssembly* process must now be associated with a data group.
- Add security checks in some configuration APIs: *SetConfigurable*, *UnsetConfigurable*, *CreateDictionary*, *DeleteDictionary*, *RemoveCategoryFromDictionary*, *AddOptionToDictionary*, *RemoveOptionFromDictionary*
- Add some configuration APIs: Create/Delete Milestones/Program and *GetPlannedEffForAction*

## Updating the C\_COUNT Default Value

Due to an Oracle regression it is necessary to update the default value of C\_COUNT after its creation:

If you have run the script *update1\_EXT*, just use the following command:

```
alter table VPMENV."PART_LIST" modify C_COUNT default 'N:N:U:UUUUUUUU:UUUUUUUU';
```

If you have not yet run *update1\_EXT*, replace:

```
alter table VPMENV."PART_LIST" add C_COUNT varchar(30) default 'N:N:U:UUUUUUUU:UUUUUUUU';
```

with:

```
alter table VPMENV."PART_LIST" add C_COUNT varchar(30) default 'N:N:U:UUUUUUUU:UUUUUUUU';  
alter table VPMENV."PART_LIST" modify C_COUNT default 'N:N:U:UUUUUUUU:UUUUUUUU';
```

## BOMFILE

The list of attributes is defined by the profile variable GLOBAL\_\$(BOM\_NAVIG). If the variable is not defined for the object, the following attributes are listed:

- all attributes beginning with S\_
- C\_REVISION
- C\_PART\_VERSION
- C\_NAME (as of PTF11)
- C\_MATURITY
- EXPORT\_ID

## Recommended Interoperability PTFs

**CATIA 424-1**

The following PTFs are mandatory:

n° APAR for AIX	Description
HC66598	<i>Tools-&gt;Open Editor</i> . If the editor window size is increased no text can be written.
HC84902	The <i>File=&gt;Save</i> command in CATIA updates frozen Parts.
HC86590	The Identify Loaded Models results are partial in the PSN.
HC86219	There is no way to redirect the /tmp.
HC88222	There is a problem with a New Version function in DB2.
HC89786	Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdbatch.sh 26295 segmentation fault. DBLDRW entry issued.
HC91642	A twin model cannot be opened in CATIA V4 after a new version.
HC99292	Synchronization of VPM and CATIA for the declaration parameter <code>catcdm.DBLFAIX_ALGO</code>
HC98768	VPM interoperability: <i>File-&gt;Save</i> cannot be performed on a model after an abend then a warm start in CATIA.
HC99343	Synchronization of CATIA and VPM for the declaration parameter <code>catcdma.STORAGE.LF_METADATA</code> : Parameter deleted
HD01297	VPM interoperability: A <i>File-&gt;Save</i> cannot be performed on a model with the DBLFCAT access method.

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFS associated with commonly used functions such as SOLIDE:

n° APAR for AIX	Function	Description
HC87971	4DNAV	The 4DNav tessellation batch failed with a VPM database.

HC95918	4DNAV	Models do not move properly.
HC98650	4DNAV	The MfgProg function does not work for models opened from VPM.
HD01228	4DNAV	A VRML document cannot be opened with 4DNav from the PSN.
HC83996	AUXVIEW2	Error 744 when reading a dr model from the PSN graph.
HC89308	CATMFG	There is a core dump when loading the model with an MML on the manufacturing type.
HD00127	CDM	CDM interoperability: UB98558 breaks DATABASE + WRITE + EXT_OBJ
HC85180	CSB	Some volumes in the tree are wrongly propagated.
HC85372	CSB	There is a problem with the catcsbad.
HC87890	CSB + SAVE	No trace file is generated in the QP035AMP output + DMUSLF problem
HC89043	CSB	There is a QP035AMP crash when a file contains more than 1000 models.
HC91298	CSB	Box zoning does not work Project-comprehensive
HC92275	CSB	The QP035AMP process is triggered when saving a model on HP.
HC93487	CSB	A model with a voxel size of 5mm cannot be stored in VPM.
HC85860	DATABASE	The cgr stored in datalinks is not updated after the V4 model is modified.
HC92618	E3D	E3D CDMA Parts cannot be accessed if the VPM (or CDM) environment exceeds five characters.
HC86788	FD&T	Chamfer FD&T dimensioning is split into two when in the VPM assembly context.
HC87759	FD&T	There is a performance problem loading the FD&T function on an assembly coming from VPM.
HC89159	FD&T	When you version a Part, the tolerances are not updated.
HC83200	MML	MML type model to model => entity to entity migration: Action required.
HC82890	OPEN	There is a warning when opening a model.
HC90047	OPEN	An abend occurs when opening a V5 model in V4.
HC84035	SAVE	It is impossible to manage document revision using DMUSLF.
HC85938	SAVE	A model cannot be stored using DBLFCAT.
HC85967	SAVE	A model cannot be stored using DBLFCAT.

HC87012	SAVE	When executing the <i>File-&gt;Save</i> command, VPM cannot be found to save a model. An error occurred in the Japanese environment.
HC87890	CSB + SAVE	No trace file is generated in the QP035AMP output + DMUSLF problem
HC90206	SAVE	A DMUSLF user exit does not reference the type of model created.
HC90465	SAVE	There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
HC91658	SAVE	Backup management for saved versions of CATIA models.
HC91751	SAVE	Save All with VPM and CATIA model
HD02268	SAVE	VPM interoperability: There is an SQLERROR -407 when a model is saved using VPM after an update version.
HC82087	SKIN	Some errors are detected by the cleaner if the GSM model is loaded from VPMA and CATIA results in an abend at save.
HC81501	SOLIDE	The MML_SOL link is desynchronized after a save.
HC89303	SOLIDE	There is a core dump with a union on two empty spacemaps.

## CATIA 424-2

The following PTFs are mandatory:

n° APAR for AIX	Description
HC89786	Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdbatch.sh 26295 segmentation fault. DBLDRW entry issued.
HC91641	Standard DS traces cause problems. The delivery for UB97943, UB97941, UB97942, UB97944 is incomplete.
HC99292	Synchronization of VPM and CATIA for the declaration parameter <code>catcdm.DBLFAIX_ALGO</code>
HC98768	VPM interoperability: <i>File-&gt;Save</i> cannot be performed on a model after an abend then a warm start in CATIA.



HC99343	Synchronization of CATIA and VPM for the declaration parameter <code>catcdma.STORAGE.LF_METADATA</code> : Parameter deleted
HD01297	VPM interoperability: A <i>File-&gt;Save</i> cannot be performed on a model with the DBLFCAT access method.

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFs associated with commonly used functions such as SOLIDE:

n° APAR for AIX	Function	Description
HC92706	4DNAV	After closing a 4DNav session started from VPM, it cannot be restarted.
HC95918	4DNAV	Models do not move correctly.
HC89308	CATMFG	There is a core dump when loading the model with a MML on the manufacturing type.
HC89043	CSB	There is a QP035AMP crash when a file contains more than 1000 models.
HC89303	CSB	There is a core dump with a union on two empty spacemaps.
HC91298	CSB	Box zoning does not work Project-comprehensive
HC92046	CSB	VPM/CATIA lock in the spacemap.
HC92275	CSB	The QP035AMP process is triggered when saving a model on HP.
HC93336	CSB	VPM/CATIA lock in the spacemap (part 2).
HC93487	CSB	A model with a voxel size of 5mm cannot be stored in VPM.
HC97314	CSB	The spacemap filter does not work properly with a model.
HC98203	CSB	Modification on CSB volume algorithm
HC90454	MML	Change UUID also keeps the link to the original version of the model.
HC90047	OPEN	An abend occurs when opening a V5 model in V4.
HC95245	OPEN	V5->V4 interoperability: V4 delivery for compatibility with V5 command Send To
HC90206	SAVE	A DMUSLF user exit does not reference the type of model created.
HC90465	SAVE	There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.

HC91658	SAVE	Backup management for saved versions of CATIA models.
HC91751	SAVE	Save All with VPM and CATIA model
HD02268	SAVE	VPM interoperability: There is an SQLERROR -407 when a model is saved using VPM after an update version.

## Cumulative Fixes PTF13

OS	UH	OS	UH	OS	UH	OS	UH
IX	UH02383	HP	UH02396	SG	UH02389	SU	UH02370
IX	UH02388	HP	UH02401	SG	UH02382	SU	UH02384
IX	UH02386	HP	UH02405	SG	UH02376	SU	UH02385
IX	UH02381	HP	UH02400	SG	UH02371	SU	UH02367
IX	UH02391	HP	UH02398	SG	UH02374	SU	UH02368
IX	UH02394	HP	UH02399	SG	UH02372	SU	UH02373
IX	UH02377	HP	UH02403	SG	UH02378	SU	UH02380
IX	UH02395	HP	UH02402	SG	UH02379	SU	UH02392
IX	UH02390	HP	UH02397	SG	UH02393	SU	UH02366
IX	UH02375	HP	UH02404	SG	UH02387	SU	UH02369

## Free Text PTF13

<b>Admin</b>	<ul style="list-style-type: none"> <li>• HD00176: The name link between two Parts after a STEP export by batch does not appear correctly.</li> <li>• HD01030: The description of the <i>AfterCommitUserAction</i> method is wrong.</li> </ul>
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	<ul style="list-style-type: none"> <li>• HD01137: There is a YACC stack overflow in <code>VPMENTV_PART_LIST</code> when <code>VPMExchangesInst.sh</code> is run.</li> </ul>
<b>AFL</b>	<ul style="list-style-type: none"> <li>• HD00276: There is an Action creation problem.</li> <li>• HD01083: Updating the Action object causes a VPM crash.</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• HC90799: The rename after <i>More Information</i> does not work correctly.</li> <li>• HC97480: A S0011 abend occurs when a large assembly is pasted into the PSN with expand manual set.</li> <li>• HC99843: Deleting the DOCCAD table with two PSN windows open causes a VPM abend.</li> <li>• HD00495: The links are broken on the positioning matrix after using the <i>Replace where used</i> option.</li> <li>• HD00751: <i>Tools/New version</i> with a different part number results in an incorrect PSN tree.</li> <li>• HD01148: <i>Tools/New revision</i> has not been available since the migration 140 to 150 PTF9.</li> <li>• HD01245: There is no security for VPM clash management.</li> <li>• HD01879: The components highlighted in the structure display are incomplete after performing VPM PSN <i>Identify Changes</i>.</li> <li>• HD02216: The positioning is lost after changing <i>C_COMMENT</i>.</li> <li>• HD02342: There is a VPM abend when defining option and categories from the PSN for a new version.</li> <li>• HD02415: VPM interoperability: The CATIA V5 window is launched as not visible if the VPMA window is minimized.</li> <li>• HD02433: The API <code>CATDMUsrInstance::CreateNewRevision(...)</code> for a Part object does not create the associated representations.</li> <li>• HD02451: Compare graph with base: There is a problem with the added links.</li> </ul>
<b>CFG</b>	<ul style="list-style-type: none"> <li>• HD00454: The new options cannot be seen unless a restart is performed.</li> <li>• HD02333: The Include Query function does not work in a filter by identification.</li> </ul>
<b>Install</b>	<ul style="list-style-type: none"> <li>• HD00185: RECAPP_ORACLE: Test: Argument expected. Affected script: <code>VPMInstall_Check.sh</code></li> </ul>
<b>Interop</b>	<ul style="list-style-type: none"> <li>• HD01359: There is a VPM timeout when starting CATIA.</li> </ul>
<b>ITVPMCV5</b>	<ul style="list-style-type: none"> <li>• HD00573: VPM interoperability: All applicative data (3D annotation, group, camera,</li> </ul>

	<p>fitting) which was generated in DMU cannot be saved in VPM.</p> <ul style="list-style-type: none"> <li>• HD01114: VPM interoperability: The Attach graph icon display is wrong if a PSN is opened from CATIA V5.</li> </ul>
<b>MML</b>	<ul style="list-style-type: none"> <li>• HC97629: VPM interoperability: MML stays linked to the old version after the creation of a new version.</li> <li>• HD02949: VPM crashes when the MML graph is opened.</li> </ul>
<b>Multisite</b>	<ul style="list-style-type: none"> <li>• HD00967: A global XML replication cannot be performed.</li> <li>• HD01017: The BOM is inconsistent (different) after an XML export-import.</li> </ul>
<b>P&amp;O</b>	<ul style="list-style-type: none"> <li>• HD00851: <code>VPM_SECURITY_MODE = STANDARD</code> prevents the P&amp;O from using the cluster-type data group.</li> <li>• HD00962: PSN: A dynamic open for a .PSN file does not work if the configuration filter contains the <i>Add proposed effectivity</i> option.</li> <li>• HD01250: When importing data with a <i>VPMPeopleImport</i> tool, the privilege specifying the cluster data group cannot be imported.</li> </ul>
<b>PSN</b>	<ul style="list-style-type: none"> <li>• HD00952: BOM: It is impossible to open a .psn from a read-only directory.</li> <li>• HD01325: VPM crashes when the <i>Compare with base</i> function is used with the leaves option.</li> <li>• HD01991: The time it takes to open a PSN in dynamic mode / selected instances has greatly increased since PTF9.</li> </ul>

## PTF14 Update

### REMEMBER to rebuild the user exits!

A user exit sample resides under `$VPM/code/sample`.

### WARNING!

Do not, under any circumstances, put any customized library fixes or development modules into your VPM STEPLIB directory (usually `$CAT_CUST/code/steplib/$OS`) unless expressly requested to do so in the official documentation or by the VPM maintenance or development team. This is because the directory is shared with CATIA V4 and interaction between VPM and CATIA V4 may therefore be

unpredictable.

## Action

Action display in VPMAccess is controlled by means of the profile. The list of the attributes displayed is already set with the GLOBAL\_\$RESULT\_ACTION variable. From now on, attribute display is set with the GLOBAL\_\$FORMAT variable. For example, for the *secondary\_id* attribute:

```
ASSIGN 'SYNONYM("Id"), MAX(32)'  
TO "GLOBAL_$FORMAT_ACTION.secondary_id";;
```

## Multisite

Customers using ENOVIA<sub>VPM</sub> distributed multisite capabilities are strongly recommended to use only the XML-based exchange mechanisms.

## Security Process

Application	Function	Command	NT Client
VPM	BOM	MoveInstance	x

## Recommended Interoperability PTFs

**CATIA 424-1**

The following PTFs are mandatory:

<b>APAR (AIX)</b>	<b>Description</b>
HC66598	<i>Tools-&gt;Open Editor</i> . If the editor window size is increased no text can be written.
HC84902	The <i>File=&gt;Save</i> command in CATIA updates frozen Parts.
HC86590	The Identify Loaded Models results are partial in the PSN.
HC86219	There is no way to redirect the /tmp.
HC88222	There is a problem with a New Version function in DB2.
HC89786	Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdbatch.sh 26295 segmentation fault. DBLDRW entry issued.
HC91642	A twin model cannot be opened in CATIA V4 after a new version.
HC99292	Synchronization of VPM and CATIA for the declaration parameter catcdm.DBLFAIX_ALGO
HC98768	VPM interoperability: <i>File-&gt;Save</i> cannot be performed on a model after an abend then a warm start in CATIA.
HC99343	Synchronization of CATIA and VPM for the declaration parameter catcdma.STORAGE.LF_METADATA: Parameter deleted
HD01297	VPM interoperability: A <i>File-&gt;Save</i> cannot be performed on a model with the DBLFCAT access method.

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFs associated with commonly used functions such as SOLIDE:

<b>APAR (AIX)</b>	<b>Function</b>	<b>Description</b>
HC87971	4DNAV	The 4DNav tessellation batch failed with a VPM database.
HC95918	4DNAV	Models do not move properly.
HC98650	4DNAV	The MfgProg function does not work for models opened from VPM.

HD01228	4DNAV	A VRML document cannot be opened with 4DNav from the PSN.
HC83996	AUXVIEW2	Error 744 when reading a dr model from the PSN graph.
HC89308	CATMFG	There is a core dump when loading the model with an MML on the manufacturing type.
HD00127	CDM	CDM interoperability: UB98558 breaks DATABASE + WRITE + EXT_OBJ
HC85180	CSB	Some volumes in the tree are wrongly propagated.
HC85372	CSB	There is a problem with the catcsbad.
HC87890	CSB + SAVE	No trace file is generated in the QP035AMP output + DMUSLF problem
HC89043	CSB	There is a QP035AMP crash when a file contains more than 1000 models.
HC91298	CSB	Box zoning does not work Project-comprehensive
HC92275	CSB	The QP035AMP process is triggered when saving a model on HP.
HC93487	CSB	A model with a voxel size of 5mm cannot be stored in VPM.
HC85860	DATABASE	The cgr stored in datalinks is not updated after the V4 model is modified.
HC92618	E3D	E3D CDMA Parts cannot be accessed if the VPM (or CDM) environment exceeds five characters.
HC86788	FD&T	Chamfer FD&T dimensioning is split into two when in the VPM assembly context.
HC87759	FD&T	There is a performance problem loading the FD&T function on an assembly coming from VPM.
HC89159	FD&T	When you version a Part, the tolerances are not updated.
HC83200	MML	MML type model to model => entity to entity migration: Action required.
HC82890	OPEN	There is a warning when opening a model.
HC90047	OPEN	An abend occurs when opening a V5 model in V4.
HC84035	SAVE	It is impossible to manage document revision using DMUSLF.
HC85938	SAVE	A model cannot be stored using DBLFCAT.
HC85967	SAVE	A model cannot be stored using DBLFCAT.
HC87012	SAVE	When executing the <i>File-&gt;Save</i> command, VPM cannot be found to save a

		model. An error occurred in the Japanese environment.
HC87890	CSB + SAVE	No trace file is generated in the QP035AMP output + DMUSLF problem
HC90206	SAVE	A DMUSLF user exit does not reference the type of model created.
HC90465	SAVE	There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
HC91658	SAVE	Backup management for saved versions of CATIA models.
HC91751	SAVE	Save All with VPM and CATIA model
HD02268	SAVE	VPM interoperability: There is an SQLERROR -407 when a model is saved using VPM after an update version.
HC82087	SKIN	Some errors are detected by the cleaner if the GSM model is loaded from VPMA and CATIA results in an abend at save.
HC81501	SOLIDE	The MML_SOL link is desynchronized after a save.
HC89303	SOLIDE	There is a core dump with a union on two empty spacemaps.

### CATIA 424-2

The following PTFs are mandatory:

APAR (AIX)	Description
HC89786	Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdblbatch.sh 26295 segmentation fault. DBLDRW entry issued.
HC91641	Standard DS traces cause problems. The delivery for UB97943, UB97941, UB97942, UB97944 is incomplete.
HC99292	Synchronization of VPM and CATIA for the declaration parameter catcdm.DBLFAIX_ALGO
HC98768	VPM interoperability: <i>File-&gt;Save</i> cannot be performed on a model after an abend then a warm start in CATIA.
HC99343	Synchronization of CATIA and VPM for the declaration parameter



	catcdma.STORAGE.LF_METADATA: Parameter deleted
HD01297	VPM interoperability: A <i>File-&gt;Save</i> cannot be performed on a model with the DBLFCAT access method.

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFS associated with commonly used functions such as SOLIDE:

APAR (AIX)	Function	Description
HC92706	4DNAV	After closing a 4DNav session started from VPM, it cannot be restarted.
HC95918	4DNAV	Models do not move correctly.
HC89308	CATMFG	There is a core dump when loading the model with a MML on the manufacturing type.
HC89043	CSB	There is a QP035AMP crash when a file contains more than 1000 models.
HC89303	CSB	There is a core dump with a union on two empty spacemaps.
HC91298	CSB	Box zoning does not work Project-comprehensive
HC92046	CSB	VPM/CATIA lock in the spacemap.
HC92275	CSB	The QP035AMP process is triggered when saving a model on HP.
HC93336	CSB	VPM/CATIA lock in the spacemap (part 2).
HC93487	CSB	A model with a voxel size of 5mm cannot be stored in VPM.
HC97314	CSB	The spacemap filter does not work properly with a model.
HC98203	CSB	Modification on CSB volume algorithm
HC90454	MML	Change UUID also keeps the link to the original version of the model.
HC90047	OPEN	An abend occurs when opening a V5 model in V4.
HC95245	OPEN	V5->V4 interoperability: V4 delivery for compatibility with V5 command Send To
HC90206	SAVE	A DMUSLF user exit does not reference the type of model created.
HC90465	SAVE	There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
HC91658	SAVE	Backup management for saved versions of CATIA models.
HC91751	SAVE	Save All with VPM and CATIA model

HD02268	SAVE	VPM interoperability: There is an SQLERROR -407 when a model is saved using VPM after an update version.
HD03461	OPEN	VPM interoperability: Problem loading V4 model save with DBLFAIX

## Cumulative Fixes PTF14

OS	UH	OS	UH	OS	UH	OS	UH
IX	UH02800	HP	UH02812	SG	UH02785	SU	UH02783
	UH02797		UH02784		UH02805		UH02801
	UH02791		UH02795		UH02796		UH02782
	UH02788		UH02787		UH02798		UH02809
	UH02804		UH02803		UH02792		UH02811
	UH02790		UH02806		UH02793		UH02799
	UH02810		UH02789		UH02786		UH02794
	UH02813		UH02802		UH02808		UH02807

## Free Text PTF14

<b>ADMBASE</b>	<ul style="list-style-type: none"> <li>• HD03884: Missing VPM_ENTITY and VPM_LINK cause an error in VPM.</li> </ul>
<b>Admin</b>	<ul style="list-style-type: none"> <li>• HD03278: API: Check out does not return the proper context.</li> <li>• HD02188: The behavior of STEP import for a frozen link for the modified VPM structure is inconsistent.</li> <li>• HD03867: There is a VPM crash if CATIA_MODEL is eliminated from the declaration file.</li> <li>• HD03067: The wrong values are returned by the API call <i>GetOptFromDictionary</i>.</li> <li>• HD03030: CATDMUsrMethodContext::GetEnvironment: GetEnvironment</li> </ul>

	<p>returns an empty string.</p> <ul style="list-style-type: none"> <li>• HD03173: Error.IER=1 for CATDMUshrMethod::AuthorizedMove is not usable.</li> <li>• HD04307: SaveGraphSession cannot use the /tmp for SaveGraphSession. Declaration parameter catcdma.PSN.GRAPHSESSION documented.</li> <li>• HC98788: There is a rollback problem.</li> </ul>
<b>AFL</b>	<ul style="list-style-type: none"> <li>• HD03830: It is possible to define the top range lower than the bottom range for a proposed effectivity.</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• HD03056: CATHIS is kept following the deletion of a NewRevision that was renamed.</li> <li>• HD03285: An abend S0006 occurs when overwriting a model at STEP export.</li> <li>• HD02927: The user exit dictionary control is only called once during an ownership change.</li> <li>• HD03512: There is an invalid setting when using CATIA V4 and VPM 1.5.</li> <li>• HD01753: Subscribe replication does not work if a subscription type is Organization.</li> <li>• HD03163: There is a problem with the contextual menu customized in the PSN.</li> <li>• HD04200: Behavior is wrong when a STEP import of a modified link is performed.</li> <li>• HC95459: The right-hand scrollbar is in the wrong position.</li> <li>• HD04049: When selecting a configuration handler with too many options an error message appears.</li> </ul>
<b>CFG</b>	<ul style="list-style-type: none"> <li>• HD03399: The configuration is wrong after a link is removed.</li> </ul>
<b>ITVPMCV5</b>	<ul style="list-style-type: none"> <li>• HD04240: VPM/ DMU interoperability: There is an error 16258 when trying to version with a different Part number a Part which contains an applicative container.</li> <li>• HD04203: VPM interoperability: There is a VPM crash at a Create &amp; Save on a V5 Part with DBLFAIX.UNIX PATH if the directory does not exist.</li> <li>• HD04500: 3d com enables the association of models with released Parts.</li> <li>• HD04879: VPM interoperability: Links in the PSN remain pink although the immediate commit has failed.</li> </ul>
<b>P&amp;O</b>	<ul style="list-style-type: none"> <li>• HD02830: The process group does not display the added process.</li> </ul>
<b>PSN</b>	<ul style="list-style-type: none"> <li>• HD02822: There is an abend S0004 for a context copy in PSN when a .psn file is opened with a selected/highlighted Part.</li> </ul>

	<ul style="list-style-type: none"><li>• HD04294: VPM role restriction is not respected by 3d com (DB view).</li></ul>
<b>System</b>	<ul style="list-style-type: none"><li>• HC89803: V5 performance is poor in the simplified Chinese code page ZH_CN .</li></ul>
<b>VPMA</b>	<ul style="list-style-type: none"><li>• HD03308: The .txt generated with the Print function from VPM Access is unusable.</li></ul>

## PTF15 Update

### REMEMBER to rebuild the user exits!

A user exit sample resides under `$VPM/code/sample`.

### WARNING!

Do not, under any circumstances, put any customized library fixes or development modules into your VPM STEPLIB directory (usually `$CAT_CUST/code/steplib/$OS`) unless expressly requested to do so in the official documentation or by the VPM maintenance or development team. This is because the directory is shared with CATIA V4 and interaction between VPM and CATIA V4 may therefore be unpredictable.

### WARNING! Missing Headers!

A problem has been found (i.e. errors are displayed) when compiling user exits.

### Explanation

Before the construction of the new VPM API documentation (delivered on PTF15), many ".h" files (header files) which were not usable by customers were removed.

During this operation, some mistakes were made i.e. headers were removed because they were unusable but were still referenced in the other remaining headers.

## Symptoms

When compiling user exits, errors occur due to the missing headers.

## How to Fix the Problem

To fix the problem, on top of the PTF15, ask IBM for the correcting tar file, and install it as follows:

```
cd $VPM/PublicInterfaces
tar -xvf missingHeaders.tar
```

## Installation

1. A problem has been identified when performing a **from-scratch** installation of VPM 1.5 PTF15 on **SGI systems only** and using an **Oracle database only**.

The installation process exits VPMDDataManager prematurely, and it is not possible to execute VPM subsequently.

To bypass the problem, proceed as follows:

- o Log in as VPM administrator and run `VPMInstall.sh -oracle`
- o Exit `VPMInstall.sh`
- o Modify your `lkora` shell script (in `$CAT_CUST/code/bin`) with the following:

```
PTOS="$SAMPLE/dblsas.o $SAMPLE/dbcsta.o $SAMPLE/orxsta.o"
PTOS=$PTOS $SAMPLE/orindb.o $SAMPLE/DBXSTR6.o $SAMPLE/DBXEXP6.o "
PTOS=$PTOS $CDMLIB/DBCOPR.o "
PTOS=$PTOS $CDMLIB/DBCSIN.o "
PTOS=$PTOS $CDMLIB/DBOALD.o "
load=$dir_val/JD061SGB
dbgeco -c -s $SAMPLE/JD061SGB -p $PTOS \
      -o $load
rc2=$?
if [[ $os = HP-UX ]] ; then
LD_ORACLE_OPT=" -L "$ORACLE_HOME/lib" -lclntsh -l:libcma.sl -ldld"
```

```

else
LD_ORACLE_OPT=" -L "$ORACLE_HOME/lib" -lclntsh "
fi
#####
## for ORACLE 8 only ##
#####
if [[ -f $ORACLE_HOME/orainst/inspdver ]] ; then
save_ldoracleoptions=$ldoracleoptions
fi
ldoracleoptions=`echo $LD_ORACLE_OPT | sed 's/\\/\\\\\\\\/g'`
#####
## for ORACLE 8 only ##
#####
if [[ $os != HP-UX ]] ; then
if [[ -f $ORACLE_HOME/orainst/inspdver ]] ; then
ldoracleoptions=$save_ldoracleoptions" "$ldoracleoptions
fi
fi

sed "1,\$s/libgeo.a/libgeo.a $ldoracleoptions/" < \
./JD061SGB.ed > ./JD061SGB.ksh
chmod +x ./JD061SGB.ksh
rm -f ./JD061SGB.lk >/dev/null
rm -f $load > /dev/null 2>&1
./JD061SGB.ksh
rc3=$?
rc=`expr $rc1 + $rc2 + $rc3`
fi

exit $rc

```

- o Go on with the installation.

2. Another problem occurs when performing a **from-scratch** installation of VPM 1.5 PTF 15 on **SUN systems only** and using a **DB2 database only**.

The installation process exits VPMDDataManager prematurely but all the operations linked to VPMDDataManager are correctly performed and VPM can then work normally.

The bypass is to export the following environment variable VPM\_DB2\_SQLCOLUMNS\_NO=1

Neither of these problems occurs when installing PTF15 as an upgrade on an existing installation, as long as existing connection modules

remain unchanged and are not rebuilt.

## Recommended Interoperability PTFs

### CATIA 424-1

The following PTFs are mandatory:

APAR (AIX)	Description
HC66598	<i>Tools-&gt;Open Editor</i> . If the editor window size is increased no text can be written.
HC84902	The <i>File=&gt;Save</i> command in CATIA updates frozen Parts.
HC86590	The Identify Loaded Models results are partial in the PSN.
HC86219	There is no way to redirect the /tmp.
HC88222	There is a problem with a New Version function in DB2.
HC89786	Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdbatch.sh 26295 segmentation fault. DBLDRW entry issued.
HC91642	A twin model cannot be opened in CATIA V4 after a new version.
HC99292	Synchronization of VPM and CATIA for the declaration parameter catcdm.DBLFAIX_ALGO
HC98768	VPM interoperability: <i>File-&gt;Save</i> cannot be performed on a model after an abend then a warm start in CATIA.
HC99343	Synchronization of CATIA and VPM for the declaration parameter catcdma.STORAGE.LF_METADATA: Parameter deleted
HD01297	VPM interoperability: A <i>File-&gt;Save</i> cannot be performed on a model with the DBLFCAT access method.

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFs associated with commonly used functions such as SOLIDE:

APAR (AIX)	Function	Description
HC87971	4DNAV	The 4DNAV tessellation batch failed with a VPM database.
HC95918	4DNAV	Models do not move properly.
HC98650	4DNAV	The MfgProg function does not work for models opened from VPM.
HD01228	4DNAV	A VRML document cannot be opened with 4DNAV from the PSN.
HC83996	AUXVIEW2	Error 744 when reading a dr model from the PSN graph.
HC89308	CATMFG	There is a core dump when loading the model with an MML on the manufacturing type.
HD00127	CDM	CDM interoperability: UB98558 breaks DATABASE + WRITE + EXT_OBJ
HC85180	CSB	Some volumes in the tree are wrongly propagated.
HC85372	CSB	There is a problem with the catcsbad.
HC87890	CSB + SAVE	No trace file is generated in the QP035AMP output + DMUSLF problem
HC89043	CSB	There is a QP035AMP crash when a file contains more than 1000 models.
HC91298	CSB	Box zoning does not work Project-comprehensive
HC92275	CSB	The QP035AMP process is triggered when saving a model on HP.
HC93487	CSB	A model with a voxel size of 5mm cannot be stored in VPM.
HC85860	DATABASE	The cgr stored in datalinks is not updated after the V4 model is modified.
HC92618	E3D	E3D CDMA Parts cannot be accessed if the VPM (or CDM) environment exceeds five characters.
HC86788	FD&T	Chamfer FD&T dimensioning is split into two when in the VPM assembly context.
HC87759	FD&T	There is a performance problem loading the FD&T function on an assembly coming from VPM.
HC89159	FD&T	When you version a Part, the tolerances are not updated.
HC83200	MML	MML type model to model => entity to entity migration: Action required.
HC82890	OPEN	There is a warning when opening a model.
HC90047	OPEN	An abend occurs when opening a V5 model in V4.



HC84035	SAVE	It is impossible to manage document revision using DMUSLF.
HC85938	SAVE	A model cannot be stored using DBLFCAT.
HC85967	SAVE	A model cannot be stored using DBLFCAT.
HC87012	SAVE	When executing the <i>File-&gt;Save</i> command, VPM cannot be found to save a model. An error occurred in the Japanese environment.
HC87890	CSB + SAVE	No trace file is generated in the QP035AMP output + DMUSLF problem
HC90206	SAVE	A DMUSLF user exit does not reference the type of model created.
HC90465	SAVE	There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
HC91658	SAVE	Backup management for saved versions of CATIA models.
HC91751	SAVE	Save All with VPM and CATIA model
HD02268	SAVE	VPM interoperability: There is an SQLERROR -407 when a model is saved using VPM after an update version.
HC82087	SKIN	Some errors are detected by the cleaner if the GSM model is loaded from VPMA and CATIA results in an abend at save.
HC81501	SOLIDE	The MML_SOL link is desynchronized after a save.
HC89303	SOLIDE	There is a core dump with a union on two empty spacemaps.

## CATIA 424-2

The following PTFs are mandatory:

APAR (AIX)	Description
HC89786	Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdbatch.sh 26295 segmentation fault. DBLDRW entry issued.
HC91641	Standard DS traces cause problems. The delivery for UB97943, UB97941, UB97942, UB97944 is incomplete.
HC99292	Synchronization of VPM and CATIA for the declaration parameter

	catcdm.DBLFAIX_ALGO
HC98768	VPM interoperability: <i>File-&gt;Save</i> cannot be performed on a model after an abend then a warm start in CATIA.
HC99343	Synchronization of CATIA and VPM for the declaration parameter catcdma.STORAGE.LF_METADATA: Parameter deleted
HD01297	VPM interoperability: A <i>File-&gt;Save</i> cannot be performed on a model with the DBLFCAT access method.

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFs associated with commonly used functions such as SOLIDE:

APAR (AIX)	Function	Description
HC92706	4DNAV	After closing a 4DNav session started from VPM, it cannot be restarted.
HC95918	4DNAV	Models do not move correctly.
HC89308	CATMFG	There is a core dump when loading the model with a MML on the manufacturing type.
HC89043	CSB	There is a QP035AMP crash when a file contains more than 1000 models.
HC89303	CSB	There is a core dump with a union on two empty spacemaps.
HC91298	CSB	Box zoning does not work Project-comprehensive
HC92046	CSB	VPM/CATIA lock in the spacemap.
HC92275	CSB	The QP035AMP process is triggered when saving a model on HP.
HC93336	CSB	VPM/CATIA lock in the spacemap (part 2).
HC93487	CSB	A model with a voxel size of 5mm cannot be stored in VPM.
HC97314	CSB	The spacemap filter does not work properly with a model.
HC98203	CSB	Modification on CSB volume algorithm
HC90454	MML	Change UUID also keeps the link to the original version of the model.
HD05658	MODEL	The cgr files stored by means of the DBLFAIX method are not put under datalink control.

HD05085	MODELS	On an HP UNIX station, MODELS/MODIFY/REPLACE/TRANSLATE cannot be done on a CATPart.
HC90047	OPEN	An abend occurs when opening a V5 model in V4.
HC95245	OPEN	V5->V4 interoperability: V4 delivery for compatibility with V5 command Send To
HC90206	SAVE	A DMUSLF user exit does not reference the type of model created.
HC90465	SAVE	There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
HC91658	SAVE	Backup management for saved versions of CATIA models.
HC91751	SAVE	Save All with VPM and CATIA model
HD02268	SAVE	VPM interoperability: There is an SQLERROR -407 when a model is saved using VPM after an update version.
HD03461	OPEN	VPM interoperability: Problem loading V4 model save with DBLFAIX

## Cumulative Fixes PTF15

OS	UH	OS	UH	OS	UH	OS	UH
IX	UH03034	HP	UH03021	SG	UH03030	SU	UH03054
	UH03062		UH03022		UH03041		UH03039
	UH03056		UH03048		UH03046		UH03040
	UH03049		UH03051		UH03037		UH03044
	UH03036		UH03043		UH03068		UH03027
	UH03066		UH03025		UH03035		UH03053
	UH03060		UH03055		UH03042		UH03020
	UH03052		UH03069		UH03070		UH03067
	UH03058		UH03063		UH03033		UH03050
	UH03029		UH03061		UH03023		UH03028
	UH03057		UH03024		UH03065		UH03031
	UH03059		UH03026		UH03038		UH03032
	UH03045		UH03047		UH03064		

## Free Text PTF15

<b>Admin</b>	<ul style="list-style-type: none"> <li>• HD02287: Tools + new version for assembly Parts is unstable.</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• HD04478: Print Part List and 3rd button</li> <li>• HD04590: Models are no longer highlighted in a saved PSN graph.</li> <li>• HD04966: There are problems with N4D and <i>Identify Load Models</i>.</li> <li>• HD05774: Deleting then writing the same CATPart into VPM (associating a new document) using the DBLFAIX method results in an error. INFO_LF</li> <li>• HD04146: When a Part addition is followed by a move the Add is lost in the action.</li> <li>• HD05578: The <i>Launch viewer</i> option is inoperative with the <i>Load Graph Session</i> function.</li> </ul>
<b>CATCDMA</b>	<ul style="list-style-type: none"> <li>• HD05651: The cgr files stored by means of the DBLFAIX method are not put under datalink control.</li> </ul>
<b>CFG</b>	<ul style="list-style-type: none"> <li>• HD05550: CFG-AFL: The effectivity is not valid after a cut.</li> </ul>
<b>Install</b>	<ul style="list-style-type: none"> <li>• HD03783: The DB2 instance password is stored in a non-secured file.</li> </ul>
<b>ITVPMCV</b>	<ul style="list-style-type: none"> <li>• HD05639: VPM crashes after a save and modified positions in a mixed V4/V5 Product Structure. An automatic commit activated.</li> <li>• HD05632: VPM interoperability: VPM crashes on instantiation of V4 models in a mixed structure.</li> <li>• HD05321: VPM interoperability: Impacts are KO in the PSN after versioning a published Part with the cache ON.</li> <li>• HD01855: VPM interoperability: VPM loops after loading a document from VPMA if a structure loaded from PSN is not completely loaded in CATIA.</li> <li>• HD05996: VPM interoperability: VPM crashes after identify from CV5.</li> <li>• HD04911: VPM must convert a UID to uppercase for user exits.</li> </ul>
<b>P&amp;O</b>	<ul style="list-style-type: none"> <li>• HD02907: VPMPeopleEdit does not support Chinese.</li> </ul>
<b>PSN</b>	<ul style="list-style-type: none"> <li>• HD04250: VPM crashes when objects are selected for more than 50 levels.</li> <li>• HD05546: The declaration setting catcdma.SELOBJ_STORE_STATE=TRUE</li> </ul>

froze VPM.

- HD05573: When using *Open a Graph Session with Query All Environments* the associated representations are not selected.
- HD05253: VPM crashes when the overview is used in the PSN.

## PTF16 Update

### REMEMBER to rebuild the user exits!

A user exit sample resides under `$VPM/code/sample`.

#### WARNING!

Do not, under any circumstances, put any customized library fixes or development modules into your VPM STEPLIB directory (usually `$CAT_CUST/code/steplib/$OS`) unless expressly requested to do so in the official documentation or by the VPM maintenance or development team. This is because the directory is shared with CATIA V4 and interaction between VPM and CATIA V4 may therefore be unpredictable.

## Migrating from a Previous Level

### Migrating to PTF16

- Modify line 1402 of the shell `$CAT_CUST/code/bin/Migrate_Prepare_files_Oracle.sh` by adding, at the end of the file:

```
$TBS_PUBSUB $TBS_INDEX
```

- Modify line 1301 of the shell `$CAT_CUST/code/bin/Migrate_Prepare_files_DB2.sh` by adding, at the end of the file:

\$TBS\_PUBSUB \$TBS\_PUBSUB

## Oracle and DB2 Replication Tools

### Publish/Subscribe

#### Database Structure Modification

In order to correct a defect concerning the publication of events via implicit subscriptions (see APAR HC90759), the structure of one of the Publish/Subscribe database tables must be modified.

This modification is mandatory as of VPM 1.5 PTF16 when upgrading from earlier releases. It is done by means of the dll scripts *update10\_PUBSUB.clp* and *update10\_PUBSUB.sql* which can be executed via the post-install shell *VPMPostInstall.sh*.

**Important!** See Data Migration below for information regarding the execution of the script *update10\_PUBSUB.sql*.

### Security

#### General Database Performance

In order to improve database performance when making queries on role and privilege tables (which is typically done by VPM during the login when all the security attached to the user is loaded in memory), several indexes have been added to these tables for key search attributes.

This update may be particularly useful for a database containing a lot of role and/or privilege objects, although it may impact administration tasks (slower insertions).

This modification is optional. It is achieved by the dll scripts *update3\_PEOPLE.clp* and *update5\_SECURITY.clp* when using DB2, or *update3\_PEOPLE.sql* and *update5\_SECURITY.sql* when using Oracle, which can all be executed via the post-install shell *VPMPostInstall.sh*.

# Data Migration

## Publish/Subscribe

When migrating an existing VPM installation to VPM 1.5 PTF16, the scripts *update10\_PUBSUB.clp* and *update10\_PUBSUB.sql* may be processed correctly by the post-install utility, which generates an error during its execution by DB2 or Oracle.

There are two ways of solving this problem:

1. Modify the migration shell *Migrate\_Prepare\_files\_DB2.sh*, by replacing line 1301:

```
custom_scripts_files $scriptfile
```

with:

```
custom_scripts_files $scriptfile $TBS_PUBSUB \  
$TBS_PUBSUB
```

and *Migrate\_Prepare\_files\_Oracle.sh* by replacing line 1402:

```
custom_scripts_files $scriptfile
```

with:

```
custom_scripts_files $scriptfile $TBS_PUBSUB \  
$TBS_INDEX
```

2. Modify the script *update10\_PUBSUB.sql* once it is processed, by replacing the command:

```
create unique index "OWNER"."PUBLISHED_EVENT_I1" \  
on "OWNER"."PUBLISHED_EVENTS" \  
( PUBLISHER_OID , \  
EVENT_OID , \  
PUBLISHER_ITEM) tablespace ;
```

with:

```
create unique index "OWNER"."PUBLISHED_EVENT_I1" \
on "OWNER"."PUBLISHED_EVENTS"
(PUBLISHER_OID ,
EVENT_OID ,
PUBLISHER_ITEM) tablespace INDEX;
```

*OWNER* and *INDEX* being the actual database owner and index tablespace, as specified during the install.

## Recommended Interoperability PTFs

### CATIA 424-1

The following PTFs are mandatory:

APAR (AIX)	Description
HC66598	<i>Tools-&gt;Open Editor</i> . If the editor window size is increased no text can be written.
HC84902	The <i>File=&gt;Save</i> command in CATIA updates frozen Parts.
HC86590	The Identify Loaded Models results are partial in the PSN.
HC86219	There is no way to redirect the /tmp.
HC88222	There is a problem with a New Version function in DB2.
HC89786	Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdbatch.sh 26295 segmentation fault. DBLDRW entry issued.
HC91642	A twin model cannot be opened in CATIA V4 after a new version.
HC99292	Synchronization of VPM and CATIA for the declaration parameter <code>catcdm.DBLFAIX_ALGO</code>
HC98768	VPM interoperability: <i>File-&gt;Save</i> cannot be performed on a model after an abend then a



	warm start in CATIA.
HC99343	Synchronization of CATIA and VPM for the declaration parameter <code>catcdma.STORAGE.LF_METADATA</code> : Parameter deleted
HD01297	VPM interoperability: A <i>File-&gt;Save</i> cannot be performed on a model with the DBLFCAT access method.

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFs associated with commonly used functions such as SOLIDE:

APAR (AIX)	Function	Description
HC87971	4DNAV	The 4DNav tessellation batch failed with a VPM database.
HC95918	4DNAV	Models do not move properly.
HC98650	4DNAV	The MfgProg function does not work for models opened from VPM.
HD01228	4DNAV	A VRML document cannot be opened with 4DNav from the PSN.
HC83996	AUXVIEW2	Error 744 when reading a dr model from the PSN graph.
HC89308	CATMFG	There is a core dump when loading the model with an MML on the manufacturing type.
HD00127	CDM	CDM interoperability: UB98558 breaks DATABASE + WRITE + EXT_OBJ
HC85180	CSB	Some volumes in the tree are wrongly propagated.
HC85372	CSB	There is a problem with the catcsbad.
HC87890	CSB + SAVE	No trace file is generated in the QP035AMP output + DMUSLF problem
HC89043	CSB	There is a QP035AMP crash when a file contains more than 1000 models.
HC91298	CSB	Box zoning does not work Project-comprehensive
HC92275	CSB	The QP035AMP process is triggered when saving a model on HP.
HC93487	CSB	A model with a voxel size of 5mm cannot be stored in VPM.
HC85860	DATABASE	The cgr stored in datalinks is not updated after the V4 model is modified.
HC92618	E3D	E3D CDMA Parts cannot be accessed if the VPM (or CDM) environment

		exceeds five characters.
HC86788	FD&T	Chamfer FD&T dimensioning is split into two when in the VPM assembly context.
HC87759	FD&T	There is a performance problem loading the FD&T function on an assembly coming from VPM.
HC89159	FD&T	When you version a Part, the tolerances are not updated.
HC83200	MML	MML type model to model => entity to entity migration: Action required.
HC82890	OPEN	There is a warning when opening a model.
HC90047	OPEN	An abend occurs when opening a V5 model in V4.
HC84035	SAVE	It is impossible to manage document revision using DMUSLF.
HC85938	SAVE	A model cannot be stored using DBLFCAT.
HC85967	SAVE	A model cannot be stored using DBLFCAT.
HC87012	SAVE	When executing the <i>File-&gt;Save</i> command, VPM cannot be found to save a model. An error occurred in the Japanese environment.
HC87890	CSB + SAVE	No trace file is generated in the QP035AMP output + DMUSLF problem
HC90206	SAVE	A DMUSLF user exit does not reference the type of model created.
HC90465	SAVE	There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
HC91658	SAVE	Backup management for saved versions of CATIA models.
HC91751	SAVE	Save All with VPM and CATIA model
HD02268	SAVE	VPM interoperability: There is an SQLERROR -407 when a model is saved using VPM after an update version.
HC82087	SKIN	Some errors are detected by the cleaner if the GSM model is loaded from VPMA and CATIA results in an abend at save.
HC81501	SOLIDE	The MML_SOL link is desynchronized after a save.
HC89303	SOLIDE	There is a core dump with a union on two empty spacemaps.

**CATIA 424-2**

The following PTFs are mandatory:

APAR (AIX)	Description
HC89786	Standard DS traces cause problems in VPM 1.5 PTF3. Vpmmdbatch.sh 26295 segmentation fault. DBLDRW entry issued.
HC91641	Standard DS traces cause problems. The delivery for UB97943, UB97941, UB97942, UB97944 is incomplete.
HC99292	Synchronization of VPM and CATIA for the declaration parameter <code>catcdm.DBLFAIX_ALGO</code>
HC98768	VPM interoperability: <i>File-&gt;Save</i> cannot be performed on a model after an abend then a warm start in CATIA.
HC99343	Synchronization of CATIA and VPM for the declaration parameter <code>catcdma.STORAGE.LF_METADATA</code> : Parameter deleted
HD01297	VPM interoperability: A <i>File-&gt;Save</i> cannot be performed on a model with the DBLFCAT access method.

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFs associated with commonly used functions such as SOLIDE:

APAR (AIX)	Function	Description
HC92706	4DNAV	After closing a 4DNav session started from VPM, it cannot be restarted.
HC95918	4DNAV	Models do not move correctly.
HC89308	CATMFG	There is a core dump when loading the model with a MML on the manufacturing type.
HC89043	CSB	There is a QP035AMP crash when a file contains more than 1000 models.
HC89303	CSB	There is a core dump with a union on two empty spacemaps.
HC91298	CSB	Box zoning does not work Project-comprehensive
HC92046	CSB	VPM/CATIA lock in the spacemap.
HC92275	CSB	The QP035AMP process is triggered when saving a model on HP.

HC93336	CSB	VPM/CATIA lock in the spacemap (part 2).
HC93487	CSB	A model with a voxel size of 5mm cannot be stored in VPM.
HC97314	CSB	The spacemap filter does not work properly with a model.
HC98203	CSB	Modification on CSB volume algorithm
HC90454	MML	Change UUID also keeps the link to the original version of the model.
HD05658	MODEL	The cgr files stored by means of the DBLFAIX method are not put under datalink control.
HD05081	MODELS	MODELS/MODIFY/REPLACE/TRANSLATE cannot be done on a CATPart on an HP UNIX station.
HD05085	MODELS	On an HP UNIX station, MODELS/MODIFY/REPLACE/TRANSLATE cannot be done on a CATPart.
HC90047	OPEN	An abend occurs when opening a V5 model in V4.
HC95245	OPEN	V5->V4 interoperability: V4 delivery for compatibility with V5 command Send To
HD03461	OPEN	VPM interoperability: Problem loading V4 model save with DBLFAIX
HD06786	OPEN	The geometry of a specific CATPart is not displayed when trying to open it with the CATPart file format.
HC90206	SAVE	A DMUSLF user exit does not reference the type of model created.
HC90465	SAVE	There is a CATIA abend S11 when using the DBLFAIX repository type in VPM.
HC91658	SAVE	Backup management for saved versions of CATIA models.
HC91751	SAVE	Save All with VPM and CATIA model
HD02268	SAVE	VPM interoperability: There is an SQLERROR -407 when a model is saved using VPM after an update version.
HD06829	SOLIDE	An abend S0006 occurs in SOLIDE CREATE IMPORT on a V5 passive CATPart.

### CATIA 424-3

The following PTFs are optional and should only be installed if you use the function involved. However, you are strongly advised to install the PTFs associated with commonly used functions such as SOLIDE:

APAR (AIX)	Function	Description
HD06829	SOLIDE	An abend S0006 occurs in SOLIDE CREATE IMPORT on a V5 passive CATPart.

## Cumulative Fixes PTF16

OS	UH	OS	UH	OS	UH	OS	UH
IX	UH03342 UH03343 UH03341	HP	UH03344 UH03339 UH03336	SG	UH03347 UH03345 UH03346	SU	UH03337 UH03340 UH03338

## Free Text PTF16

<b>Action</b>	<ul style="list-style-type: none"> <li>• HD07112: The Action Validate function does not carry over options from the old link.</li> <li>• HD07249: <i>Edit Configuration</i> and <i>Select Config Handler</i> cause an abend in VPM1.5 PTF13.</li> <li>• HD05411: The Action Validate function is unstable.</li> </ul>
<b>Admin</b>	<ul style="list-style-type: none"> <li>• HD06763: Many header files are missing in <i>/vpm/PublicInterface</i>.</li> <li>• HD06882: There is an abend after calling a external routine from the VPMA/Document window. VPM ends with RC -&gt; 139.</li> </ul>
<b>AFL</b>	<ul style="list-style-type: none"> <li>• HD06428: <i>CATVpmAFUsrMethod::CheckUsrCondition</i> is no longer called.</li> <li>• HD05966: There are available fields in <i>Object-&gt;ACTION</i>.</li> </ul>
<b>BOM</b>	<ul style="list-style-type: none"> <li>• HD01822: Segmentation fault (core dump) occurs when DBCS (Japanese) name Part as subscribe with mail is promoted.</li> <li>• HD02337: File / Settings / Display Character in trace levels are garbage.</li> </ul>

	<ul style="list-style-type: none"> <li>• HD04780: An abend S0011 occurs during <i>Open Graph Session</i>.</li> <li>• HD06381: 3d com bypass customized security defined in the BOM_USER_EXIT</li> <li>• HD05442: A rename in the PSN window on a Part does not result in a published event.</li> <li>• HD02538: Opening a graph session in static mode is different from the PSN that has been saved.</li> <li>• HD06615: The behavior of the <i>Open Graph Session</i> function in static mode is abnormal on HP.</li> <li>• HD05890: VPMIDMU: In the PSN, on multiselection of a large number of documents containing Alternate Shape, the <i>Open Alternate Shape</i> panel is not displayed.</li> <li>• HC90759: The behavior of the Publish/Subscribe module in VPM1.5.0 is strange.</li> <li>• HD06377: Checking out a model freezes VPM.</li> </ul>
<b>CFG</b>	<ul style="list-style-type: none"> <li>• HD06464: There is an abend in VPM when the PSN is expanded with a default configuration handler applied.</li> </ul>
<b>CSB</b>	<ul style="list-style-type: none"> <li>• HD06151: The volume filter using combined spacemaps is in error.</li> </ul>
<b>ITVPMCV</b>	<ul style="list-style-type: none"> <li>• HD06881: VPM crashes with a forced <i>Extract Save</i> if the user does not heed the warning message.</li> <li>• HD07079: The VPM message after <i>Extract Save</i> is not precise.</li> <li>• HD06666: A save from CATIA expands all nodes in VPM.</li> </ul>
<b>PSN</b>	<ul style="list-style-type: none"> <li>• HD05787: The PSN commit report is not managed correctly.</li> <li>• HD05806: When an <i>Identify Model</i> is done in CATIA, VPM crashes.</li> </ul>