# ENOVIA Solutions Version 5 Release 20
# Product Enhancement Overview

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# VPM Product Editor

## New Functionality

Affected Objects Report

Users who create peer or child actions of the design action get a report, if an affected object (part instance etc.) is added under an In Work design action, in the form of a notification. The notification contains name of the affected object (part instance etc.).

Locking/Unlocking the Objects in Action Editor

In addition to the lock/unlock command, an icon is also displayed so that the user can visualize the lock status for each affected or attached object.

Automatic Capture of a Part Instance

This task can help the user to multi-select the desired instances under this product node and send them to CATIA, Product Editor and Sheet Editor.

## Enhancements

There are no enhancements in R20.

# Engineering LifeCycle

## New Functionalities

### Copying and Pasting Effectivity

This functionality enables you to copy effectivity from **Modification Editor** or from the **Configuration** tab, and paste them directly into the Windows text-based application.

### Transferring Product Class and Product Root Class

This functionality enables you to transfer the Product Class and Product Root Class by using **Transfer** option.

### Multi-selection in a Sheet Editor

This function allows a more efficient modification of a number of objects in the Sheet Editor.

### Make Component Reusable

This function allows you to make a CATIA component reusable under other PRCs.

### Finding Part Instances Linked to Modification

Part Instance search panel allows to identify the **Modification** and **Operation Type** to which the instance is associated.

## Enhancements

### Reverse Filter Mode

Allows you to display the instances that are not valid for given filter criteria in a configuration filter.

### Copy and Paste to Attribute Filter

Allows you to input multiple rows of a selected column values using **Paste** option available in the contextual menu in a Attribute filter.

### Impact Graph

Allows multi-selection of Impacting documents or Instances.

### Synchronizing Part Instances

When synchronizing the Parent instance, all of its child instances are synchronized too.

# Detach Modification

You can detach an **Add**, **Cut** and **Extend** operation and modifications.

## Multi-selection in a Sheet Editor

This function allows a more efficient modification of a number of objects in the Sheet Editor.

# ENOVIA VPM Product Editor Content Management

## New Functionalities

Using Attribute Selection and Ordering for Reporting
> You can now generate ad-hoc excel reports (CSV format) on document, part reference and attributes of  part instance with selection of specific attributes and order that you would like to have in the report.

Using Where Used Relationship for Reporting
> You can now generate excel reports (CSV format) for Where Used relationships on document, part reference and part instance.

Using Iteration Management
> The Iteration Management Batch  enables the administrator to delete unwanted iterations from the database whenever Change Status command is executed.

## Enhancements

There are no enhancements in R20.

# ENOVIA System and Data Administration

## New Functionality

Managing Replication Package Using Batch
The ENOVReplicationUtility enables you to automate the multi-site replication specification administration by using a batch file.

## Enhanced Functionalities

There are no enhancements in R20.

# VPM Navigator

## New Functionalities

Creating Action Links
You can create Parent-Child, and Peer-Peer action link type using Create Action Link functionality. Linked Actions can be related items of work in an ad hoc work breakdown or network structure.

Creating, Attaching, and Editing Modification
You can manage Modifications in VPM Navigator by creating, attaching, and editing Modification.

Creating Capture from Product Structure Workbench
You can create Capture from Product Structure Workbench using Capture command.

Customizing VPM Navigator Product Structure Tree
You can customize icons and colors for object types based on the rules defined in a declarative file. VPM Navigator Node consists of an icon, a mask (if required) and an object name in text format. However, only icon and background color of the node can be customized.

Organizing Objects in VPM Search Panel
You can specify the order of objects displayed in VPM Navigator search panel as per your preferences. This helps you in navigating search list of large number of object domains and types.

Highlighting the Filtered Nodes
You can automatically highlight the nodes satisfying the filter criterion and use this selection to perform further operation.

Changing VPM Navigator Tree Layout
You can change the VPM Navigator tree layout according to your preferences and the production environment needs.

Activating Traces in Customer Environment
This section helps you to understand the tracing capability available for the client code of CATIA V5 / ENOVIA V5 VPM integration in a customer environment, thereby making the remote debugging possible.

Using the Search Result Window
The search result window displays, in the bottom, a preview area with on the left side a preview frame and in the right side attributes frame.

- The preview frame: Displays the associated 2D/3D geometry for document revision, part version, part instance and product root class.
- The attributes frame: Displays the same list of attributes which is present in the search result window.

## Enhanced Functionalities

Open Modes dialog box is modified. You can make VPM Session option available with Open Modes dialog box using Tools > Options menu.

Open with children at all levels with or without filter
You can Open an object for editing and determine whether to retrieve the children with or without applying filter.

Alternative Save
The Alternative Save command is available for Workpackage (Publications exposed) and structure exposed documents as well.

Filtering Enhancements:

- Using Move nodes…Command
  You can reassemble the nodes within the Filter dialog box using Move nodes.. command. This helps you to reassemble the filter criteria without deleting old nodes or adding new nodes.
  Move nodes.. is available for Attribute nodes (container nodes) and its children nodes (criteria nodes) under Filter Part instances.

- How to Add Selected Assembly Criterion…
  Using the Add selected Assembly criterion, you can filter a unique part and all its children.

- How to Add Selected Parts Criterion…
  The Add selected Parts criterion allows you to select a unique part in VPM Navigator filter with no prerequisite on customized attributes. If there are two instances of the same name with different references, only the selected instance gets filtered.

- Selecting Domains for the Attribute Filter
  The filter is associated through its definition to only one domain. The domain is defined with the first criterion definition.
  - Attribute Defined on one Domain
  - Attribute Defined on Several Domains

Product View Result Enhancements:

- PVR Safe Save
  Safe save provides a better PVR integration in CATIA by forbidding some operations which are not appropriate in PVR context.

- Opening Product Structure in CATIA from PVR
  Using Open Product Structure from Product View Result command, you can open a PRC in CATIA from the PVR window according to the PVR specifications mentioned in the topic.

- Retaining Synchronization of an Instance at PVR Synchronization
  You can determine whether to synchronize an assembly node while synchronizing a PVR.

- Synchronizing Multiple PVRs in Batch Mode
  You can synchronize several PVRs at once using CATEV5PVRSynchro utility with new keywords.

- Deleting PVR from VPM Search Results Window
  You can delete PVR from the VPM Search Results window. When you perform delete command from VPM Navigator Search, the PVR automatically gets detached from the parent object and the gets deleted from the ENOVIA database.

- PVR Usability Enhancements:
  - Expand Capture section is added to the Product View Result Creation dialog box.
  - Multi-selection for Creating PVR
  - Creating PVR from VPM Search
  - Creating PVR from VPM Impact Graph
  - Executing PVS from a selected filtered PVR

Refreshing a Branch or Root in the Product Tree
The Refresh command updates the VPM Navigator tree but does not change the modifications done by you in the tree. If you have collapsed or expanded nodes manually, the refresh command does not change this structure.

Check In/Check Out
The Check In, Check Out, Cancel Check Out, and Copy Out commands are available from VPM Navigator window.

Disable Open for Assembly Controlled by ENOVIA
You cannot open a part version of a structure exposed assembly (controlled by ENOVIA) from the VPM Search Result window.

Showing Modified Objects Only in Save in ENOVIA V5 VPM Dialog Box
While saving, you can display only the modified objects in the Save in ENOVIA V5 VPM dialog box. Using this feature you can specifically view and save the objects which are modified. You can avoid saving the objects which are not modified.

Default selection of Reference Check Box in Change Maturity Status Dialog Box

By default, the Reference check box is selected. When you select the Instance check box, the instance also appears in the Change Maturity Status dialog box.

Pre-valuation and Clear button in VPM Search Panel
In the Easy Search mode, you can easily fill the fields relating to Owner, Project, and Organization by clicking on pre-valuation icons.

Inserting Document Revision/Part Version from ENOVIA
You can insert a document/assembly from ENOVIA under a PRC opened in CATIA. When you insert an assembly, all the children of that assembly also get inserted and become visible.

Applying Effectivity
You can determine whether to display Categories/Specifications information in the Assign Effectivity dialog box by selecting Tools > Options menu.

Synchronizing Child Instances
When you synchronize a parent instance, all the children instances also get synchronized without having to synchronize the children one by one individually. You do not need to configure the product to synchronize the children instances.

Selecting Attributes for Refresh Document in Session
You can determine which attributes to be displayed for the refreshable document. The attributes displayed for Documents which can be refreshed in session help you in selecting the required document revision.

Rules Defined for Refresh
You can refresh a CATPart if no instance or reference of this CATPart is seen as To Be Saved in the VPMNav Save panel. There are some exceptions to this rule, BlackBox rule are still available. So if a Part is pointed by another modified CATPart, Refresh won't be possible.

Affirmative Partial Save Messages
When the Partial Save option is active, new messages are issued every time only for an object which is successfully saved in the database, in spite of being linked to another modified but non-savable object.

Customizing the Attributes for Document Revision in Search Result Window
Using Tools > Options… you can add Lock, Frozen status, and Owner Site attributes along with other attributes for Document Revision in the Search Result Window.

The Impacts On and Impacted By… commands are available through the workbench icons, and also using the contextual menu. These menus are available in Search Result window as well as in Impact Graph window.

Transferring Ownership Enhancement
You can transfer the ownership of a PRC from VPM Navigator as well as from VPM Search Result window.

The Search Condition dialog box enhancements for Insert Existing Component Option
The Advance Search tab from the Search Condition dialog box for Insert Existing component functionality has been modified. The Advanced Search tab has similar fields as Advanced Search tab from ENOVIA VPM Search workbench.

# Supply Chain Engineering Exchange

## New Functionalities

How ENOVIA information is impacted by Reconciliator
> Reconciliation solution enables you to import a set of CATIA documents in ENOVIA, defining how those data issued from file will affect data stored in ENOVIA.

## Enhanced Functionalities

Mapping Objects using Query
> Easy Query enables you to search the objects using default values of Intermediate Query criterion and the attribute values which are available in ENOVIA VPM.
> Support of alternate representation functionality enables you to identify the document that is used as an alternate shape while executing a criterion search.

Automating the Valuation of Reconciliation Rules
> All objects as Overwrite by Delta enables you to set all mapped objects with no rule to Overwrite by Delta.
> All objects as New Version by Delta enables you to set all mapped objects with no rule to New Version by Delta.

Selecting the Storage Mode
> Reload from VPDM rule is applicable for all other Products inside the same CATProduct.

# Component Catalog

No enhancements in this release.