



3DEXPERIENCE®

新零件请求
(NPR)

3DEXPERIENCE R2019x



主题

1

业务挑战和目标

2

ENOVIA 解决方案

3

流程



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业务挑战

- 开发产品以满足不断变化的客户需求需要更高的开发速度和业务敏捷性，以利用新兴市场机会
- 进行得越快，就越难改变方向，但仍然需要按时交货。
- 提高开发速度会在生产前迅速形成新零件供应链的大量需求
- 随着新产品的推出，以及特定于市场的功能和选择，新零件供应链的挑战变得更加复杂。
- 对新零件和供应商进行资质鉴定，并确保现有零件在任何可能的情况下被重复使用，既耗时又容易出错，如果没有优化的新零件申请流程，错误是不可避免的，会增加成本并造成延迟



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新零件请求包含的应用

Apps Name	Icon	Short description	Available on		
					
ENOVIA New Part Request		Managing New Part Request process	Y	N	Y

新的零件请求 - 概述

- 标准化新零件请求和开发
 - 一致、灵活的新零件 workflow
 - 管理新零件的规格和资质文件
 - 供应商、替代品、替换件经 GEO / 地域授权使用
 - 管理零件生命周期结束流程，以最大限度地减少生产中断和库存成本
- 跟踪新的零件请求流程

使用单个列表维护为特定产品引入的所有零件，并执行操作，例如：

- 发起新零件的请求
- 一次导入多个零件并取消零件开发过程
- 提供开发中需要采取行动才能继续的零件列表

好处

- 优化的新零件认证流程

通过从支持端到端、完全可追踪的新零件请求和验证过程的零件信息的统一来源进行工作，优化手动、耗时且容易出错的新零件供应链资格认证过程。

- 改进的零件重用

通过跨企业数据源搜索以查找和重用现有零件，减少零件激增，缩短开发时间和成本。

- 确保零件合格

通过选择合格、经批准和首选的零件和供应商，确保产品在第一时间正确制造。

- 零件请求协作

验证新的零件请求流程状态并将其传达给所有利益相关者

- 改进零件决策

通过分析零件仪表板视图来改进决策制定，这些视图提供流程摘要视图并可立即导航到指定的项目

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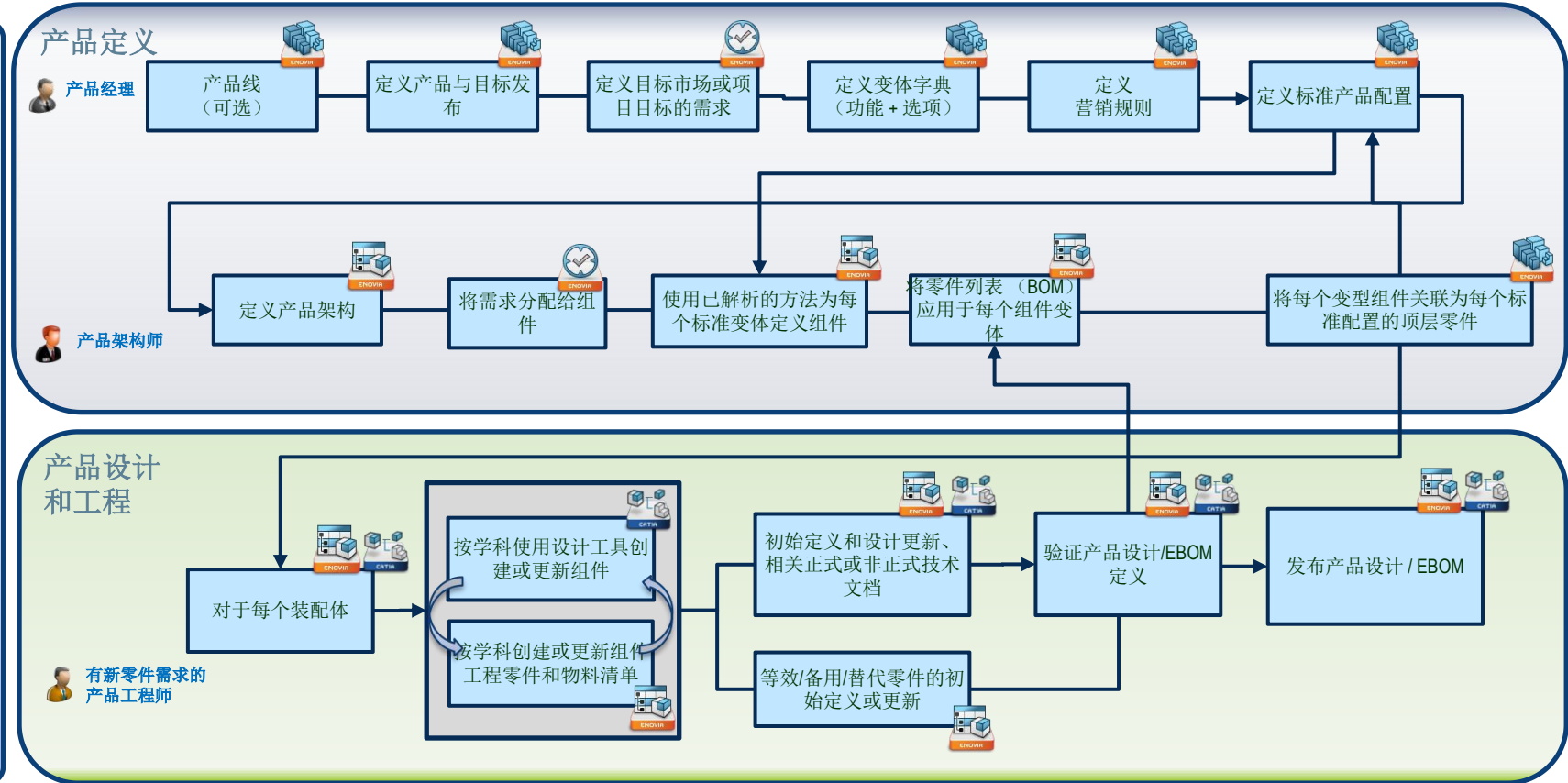
ENOVIA 解决方案

3

流程

新增功能 产品开发流程

程序、更改和配置管理



新零件列表 – 概述和状态

产品经理和工程师可以轻松启动跟踪和监控特定产品的零件开发进度。新零件在模型零件下单独维护

Excel 导入
(从 Excel 工作表中收集新零件定义)

新零件列表操作菜单，包括适用于列表中任何零件的操作

为当前型号创建的新零件列表，带零件状态和信息

在模型的不同菜单之间切换的命令

The screenshot displays the ENOVIA Engineering software interface. On the left, a sidebar contains various menu items: Bill Of Materials, Attachments, Equivalents, Change Management, Specs & Documents, Related Parts, Collaboration, Sample Ownership Access, Images, e Used, tion and History, SubComponents, Associated RFQs, and New Part List. The 'New Part List' menu is open, showing options: Add Parts From Excel File..., Search And Add, Register Part..., Create Request, Edit Part..., Delete Part, Remove From New Part List, and Copy Parts to Top Level Part... The main area shows a table of parts with columns: Revision, Part Specification, State, Development Status, Part Family, Sample Quantity, and Source Top Level Part. The table contains several rows of data, including parts with states like 'Preliminary' and 'In Work'. A 3D model of a PCB assembly is visible in the bottom right corner.

Revision	Part Specification	State	Development Status	Part Family	Sample Quantity	Source Top Level Part
1	T	Preliminary	In Work	PCB Assembly	0	D-0000101-01
1	T	Preliminary	In Work	PCB Assembly	0	D-0000101-01
1	r	Preliminary	In Work	PCB Assembly	0	D-0000101-01
1	t	Preliminary	In Work	PCB Assembly	0	D-0000101-01
1	T	Preliminary	In Work	PCB Assembly	0	D-0000101-01
1	R	Preliminary	In Work	PCB Assembly	0	D-0000101-01
1	t	Preliminary	In Work	Board Asse...	0	D-0000101-01

新的零件列表 – 可配置显示的信息和内容

用户可以对新零件列表进行排序或筛选，并自定义显示的信息以优化监视

3DEXPERIENCE | ENOVIA Engineering B... | All D* | TestBuyer TestBuyer

D-0000101-01 | State: Preliminary | Review | Owner: TestBuyer | Modified: 2/12/2015 2:32:59 PM

Drop images here | Drop files here

Actions: Type All | BOM All

- * Add Parts From Excel File...
- * Search And Add
- * Register Part...
- * Create Request
- Edit Part...
- Delete Part
- Remove From New Part List
- Copy Parts to Top Level Part...

Revision	Part Specification	State	Development Status	Part Family	Sample Quantity	Source Top Level Part
1	T	Preliminary	In Work	PCB Assembly	0	D-0000101-01
1	T	Preliminary	In Work	PCB Assembly	0	D-0000101-01
1	r	Preliminary	In Work	PCB Assembly	0	D-0000101-01
1	t	Preliminary	In Work	PCB Assembly	0	D-0000101-01
1	T	Preliminary	In Work	PCB Assembly	0	D-0000101-01
1	R	Preliminary	In Work	PCB Assembly	0	D-0000101-01
1	t	Preliminary	In Work	Board Asse...	0	D-0000101-01

Navigation (单击相关信息打开零件详细信息页或零件请求详细信息页)

Navigation (单击资格状态, 对正在进行的开发/持续请求进行汇总)

可配置显示列

零件开发Master

组件工程师可以跨多个站点搜索新零件，并将其用于开发

零件开发Master定义来自用户定义的搜索，可以跨多个站点复制零件

要在选定的新零件上引发"创建请求定义"窗口

零件开发主菜单包括适用于清单中任何部分的操作

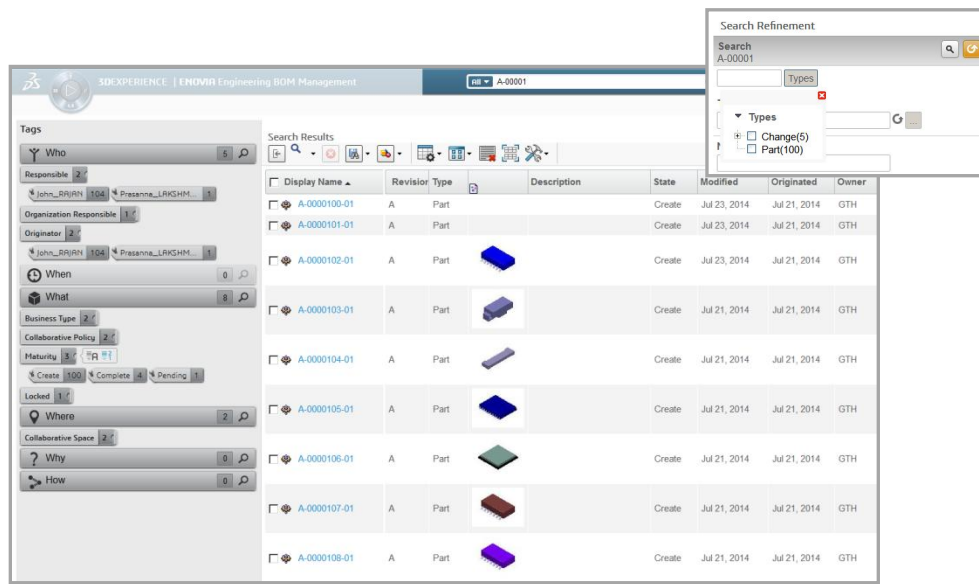
零件开发主视图的内容，由默认搜索或用户定义的搜索生成

The screenshot displays the ENOVIA 3DEXPERIENCE interface. On the left, the 'Search Refinement' panel shows filters for 'Case Sensitive', 'Limit to 100 results', 'Type: Part', 'Name', 'Revision', 'Policy: EC Part/Development Part', and 'State'. The 'Search Results' panel shows 'Results: 0' and 'No Objects Found'. The main table, titled 'My Part Development Master', lists parts with columns: Part No, Revision, MEP, Manufacturer, Crea, Part Specification, State, Development Status, Part Family, Sample Quantity, and Source Top L. The table contains several rows of data, including parts like PCB-6, PCB-8, PCB-5, PCB-7, and PCB-4. A callout points to the 'Create Request' button in the table. Another callout points to the 'Create Request' window, which shows a 'Request Type' dropdown set to 'Part Request' and a 'Request Policy' dropdown set to 'Part Request'. The window also includes a 'Remarks' field and a 'Create Request' button.

使用 3DEXPERIENCE 搜索 UI 进行零件搜索

全面的零件搜索使产品工程师和其他授权用户能够找到可重新用于新产品开发或现有零件更换要求的现有零件

- 在 3DEXPERIENCE 平台中搜索，提供对零件和相关数据的快速访问
- 标记器 UI 有助于快速缩小感兴趣的零件
- 可从搜索 UI 工具栏进行的操作
 - 比较 2 个或更多零件
 - 在 3D 中可视化
 - 编辑（批量更新）
 - 删除
 - 添加到变更



零件比较

比较零件属性使产品工程师和其他授权用户能够找到可重新用于新产品开发或现有零件更换要求的现有零件

- 比较所选零件的属性
 - 选择要与其他对象进行比较的基本对象
 - 选择要比较的所有属性或选择的属性
- 将报表显示从行布局切换为列布局
- 将比较报表导出到 Excel 的选项

The screenshot displays the 'Step 2 of 3: Select Attributes to Compare' dialog box, which allows users to select attributes for comparison. The 'Display Attributes in Report as' section is set to 'Columns'. The 'Basic Attributes' section includes 'Description', 'Modified Date', 'Originated Date', 'Owner', and 'State'. The 'Extended Attributes' section includes 'Current Version', 'Design Purchase', 'Effectivity Date', 'End Item', 'Estimated Cost', and 'Is Version'. The 'Previous', 'Next', and 'Cancel' buttons are visible at the bottom right of the dialog.

Below the dialog, the 'Step 3 of 3: Compare Report' window is shown. It displays a comparison table for four parts: B-0000100-01, B-0000101-01, B-0000102-01, and B-0000103-01. The table compares various attributes, with dissimilar attributes highlighted in red. The 'Previous', 'Next', and 'Done' buttons are visible at the bottom right of the window.

Name	B-0000100-01	B-0000101-01	B-0000102-01	B-0000103-01
Type	Part	Part	Part	Part
Rev	1	1	1	1
Description	Cover-Front	Cover-Front	Cover-Front	Cover-Front
Modified Date	Aug 25, 2014 3:57:29 PM	Aug 25, 2014 3:59:14 PM	Aug 25, 2014 3:59:58 PM	Aug 25, 2014 4:00:34 PM
Originated Date	Aug 19, 2014 2:27:24 PM	Aug 19, 2014 2:27:25 PM	Aug 19, 2014 2:27:25 PM	Aug 19, 2014 2:27:26 PM
Owner	mmTSDE	mmTSDE	mmTSDE	mmTSDE
State	Preliminary	Preliminary	Preliminary	Preliminary
Current Version	0	0	0	0
Design Purchase	Design	Design	Design	Design
Effectivity Date				
End Item	No	No	No	No
Estimated Cost	2.25 Dollar	2.35 Dollar	2.45 Dollar	2.55 Dollar
Is Version	FALSE	FALSE	FALSE	FALSE
Lead Time	2 Weeks	3 Weeks	4 Weeks	1 Week
Material Category	Material	Material	Material	Material

零件中的度量类型和值定义单位

提高在零件和EBOM 级别定义度量单位（UOM）的可用性、一致性和灵活性

- ▶ 零件度量值单位（UOM）UI 提供了新的"UOM 类型"选择，用于选择将用于上下文零件的单位类型。
- ▶ 支持的 UOM 类型和值为：
 - ▶ 面积（CM²,M²,MM²,IN²,FT²）
 - ▶ 长度（CM,M,MM,IN,FT,Yard）
 - ▶ 液体体积（ML,CL,Liter,Pint, Quart, Gallon）
 - ▶ 量（Each, Batch）
 - ▶ 体积（CM³,M³,MM³,IN³,FT³）
 - ▶ 重量（MG,CG,Gram,KG,LB,OZ,Ton）
- ▶ 根据零件中的 UOM 类型选择，在 EBOM 上下文中使用时，可以在使用级别分配任何 UOM 值

The screenshot displays the 'Properties' tab of a 3DEXPERIENCE interface. The 'UOM Type' dropdown is open, showing options: Weight, Area, Length, Liquid Volume, Proportion, Volume, and Weight. The 'Unit of Measure' dropdown is also open, showing options: MG (milligram), CG (centigram), G (gram), KG (kilogram), LB (pound), OZ (ounce), and T (ton). The 'G (gram)' option is highlighted in blue. The 'Weight' option is highlighted in the 'UOM Type' dropdown. The 'Estimated Weight' field is set to 0.0 g. The 'Target Release Date' field is empty. The 'Estimated Cost' field is set to 0.0 Dollar. The 'Target Cost' field is set to 0 Dollar. The 'Lead Time' field is set to 15.0 Day. The 'Procurement Intent' field is set to Design. The 'End Item' field is set to No. The 'Done' and 'Cancel' buttons are at the bottom right.

