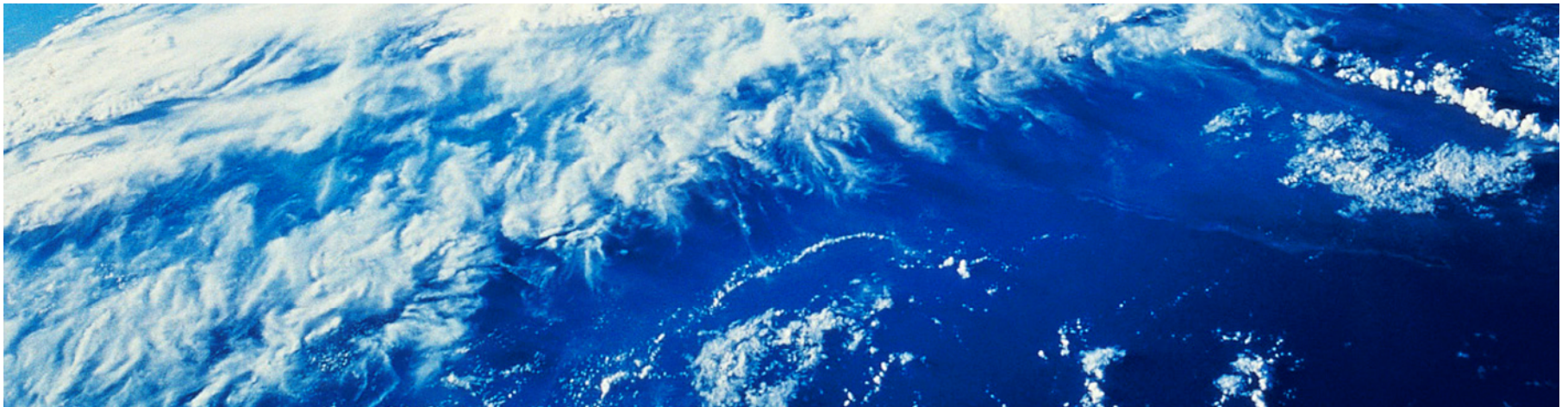


# IBM WebSphere Commerce V7 FEP8

## WC/Sterling Configurator Integration Enhancements



# Agenda

- Overview of WebSphere Commerce and Sterling Configurator integration
- FEP8 improvements introduction
  - Enable globalization support for the integration solution
  - Enable end 2 end integration scenarios from configure (Configurator) to order (WC) to fulfillment (OMS)
  - Support advanced features for PDK (Predefined Dynamic Kit, also known as PDC - PreDefined Configuration)
  - Support flexible price-lock features
- Demo (video)

# Overview of WebSphere Commerce and Sterling Configurator integration

## Goals of WC + Configurator Integration

To provide WebSphere Commerce the capability to sell complex configurable products by leveraging Sterling Visual Modeler / Product Configurator features

WebSphere Commerce and Sterling VM/Prod Conf are separated products

Provide an accelerator and an example for customers implementing Product Configurator with WebSphere Commerce

The Integration is to provide OOB support to streamline shopper and LOB user's experiences and to reduce total cost of implementation/customization

---

## Key Scenarios Supported by the Integration

WC owns **catalog** data and Sterling VM will leverage this data when defining models and option items.

WC owns item **prices** and Sterling VM can override WC prices by defining pricing rules and setting **price-lock** attributes within models.

LOB users can create **dynamic kit** (DK) and **predefined dynamic kit** (PDK) using our business tools.

LOB users can launch Sterling Visual Modeler directly from WC Management Center to work on **model** definitions and test.

WC shoppers can view and buy predefined dynamic kits from storefront or start to **configure** custom configurations by launching Sterling Configurator from WC storefront.

WC shoppers can add configurations to cart and proceed the shopping flow with **entitlement, pricing, promotion, inventory** and **payment** handled in WC.

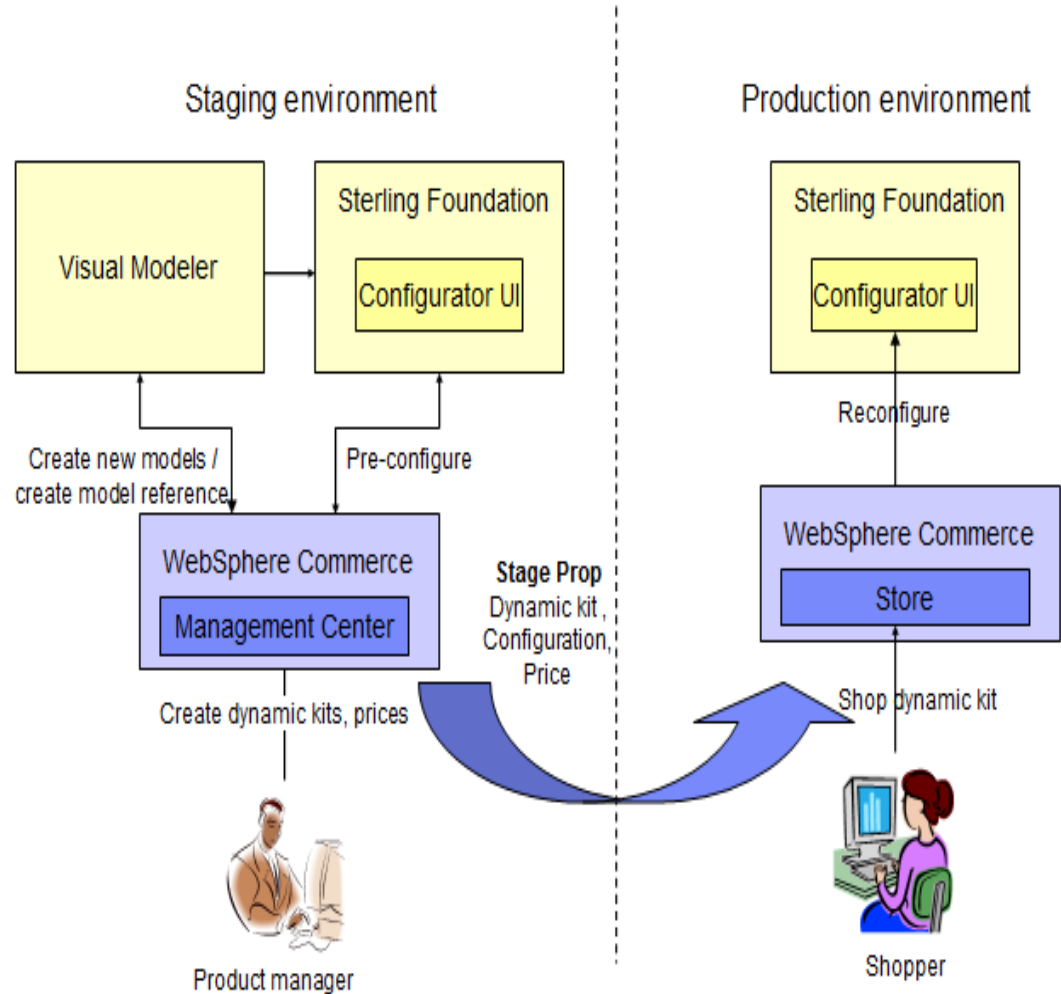
# WC + Configurator Integration flows

## LoB @ Management Center

- Launch Visual Modeler from WC CMC for model authoring/management.
- Search and browse models using integrated utility view in CMC
- Create dynamic kit and assign models to dynamic kits
- Create predefined dynamic kits and configure components for PDK.

## Shopper @ Storefront

- Display dynamic kits and predefined dynamic kits in many areas
- Catalog pages
- Search result
- E-Marketing Spots
- Merchandising associations
- Allow shoppers to configure a dynamic kit
- Reconfigure predefined dynamic kits
- Add to cart and checkout order



# Enable globalization support for the integration solution

## Enable globalization support for the integration solution

- **Problem:** both WC and Sterling Configurator support globalization, but it was missing in the WC/Configurator integration assets.
- **Scenarios** with globalization support for both LoB and shopper flows
  - Single store support multiple locales
  - Multiple stores with different locales in single WC instance
- **Gaps** would include:
  - Interaction between WC and Sterling Visual Modeler (LoB flows)
    - WC compose Locale specific VM URL
    - WC respect locale info from VM service requests
  - Interaction between WC and Product Configurator (Shopper flows)
    - WC CMC search/browse model
    - WC CMC punch-out to Configurator
    - WC Store punch-out to Configurator
  - Currency related pricing handling during WC catalog browsing and checkout
    - PDK/DK price calculation

\* This capability was already back ported to FEP6/7 through APARs



正在处理已核准内容 欢迎 wcsadmin | 注销 IBM

工作空间管理 产品目录

文件 编辑 查看 帮助 AuroraESite

主产品目录类别

搜索结果  
"比较"视图  
活动工作  
Lenovo Desktop  
未分配的产品目录条目  
产品目录上传  
搜索项关联  
节省产品目录  
Extended Sites Catalog Asset  
Apparel  
Electronics  
Grocery  
Health  
Home Furnishings  
NewslettersAndMagazines

Lenovo Desktop

管理成套商品 搜索引擎优化 配置器 描述性属性 销售关联 关联的资产 引用

Visual Modeler

型号	* 类型	* 名称	路径
		Lenovo Desktop model	AuroraESite/Demo/Lenovo_0020Desktop_0020model

选择了 0 项 (共 1 项)

配置器 删除预配置

预配置组件	* 类型	* 组名	* 代码	* 名称	数量	缩略图

IBM 配置程序可视建模器

我的主页 | 我的帐户 | 关于 | 帮助内容 | 注销

模型组导航

- Model Groups
  - AuroraESite
  - Demo

模型预览

名称	Lenovo Desktop model
描述	Lenovo Desktop model
开始日期	2014-7-13
结束日期	2064-7-14
分配的产品标识	
被引用	0
包含	
选项类	6
选项项目	12
引用模型	0
引用选项类组	0
引用选项项目组	0

Lenovo Desktop model

- Monitor
- CPU
- Hard Drive
- Video Card
- Memory
- Operating System

语言环境	运行时版本	
	日期	大小
China	2014/07/16 05:35 上午	30 Kb
United States	2014/07/14 05:51 上午	28 Kb

# Shoppers: shop in different languages and currencies in store



Apparel | Electronics | Grocery | Health | Home & Furnishing | All Departments | Search | All Departments

\* You'll see any price adjustments in the cart.

### Configure Your Lenovo Desktop

Errors: 0 Warnings: 0 Suggestions: 0

## Lenovo Desktop model

Price as configured: \$0.00 [Clear](#) [Update](#) [Summary](#) [Add to Cart](#)

Monitor	
<input checked="" type="radio"/> None	\$0.00
<input type="radio"/> Widescreen LCD Monitor	\$130.00
<input type="radio"/> Widescreen LCD Monitor 1080p HD	\$150.00

CPU	
<input checked="" type="radio"/> None	\$0.00
<input type="radio"/> CPU 4-Core	\$324.99
<input type="radio"/> CPU 6-Core	\$634.50

Hard Drive	
<input checked="" type="radio"/> None	\$0.00
<input type="radio"/> Hard Drive 500 GB	\$84.99
<input type="radio"/> Hard Drive 1000 GB	\$104.99



服饰 | 电子 | 杂货店 | 保健品 | 家居装饰 | 时事通讯和杂志 | 所有部门 | 搜索 | 所有部门

\* 您将在购物车看到任何价格调整。

### 配置您的 联想台式机

错误: 0 警告: 0 建议: 0

## 联想台式机模型

配置价格: ¥0.00 [清除](#) [更新](#) [汇总](#) [添加至购物车](#)

显示器	
<input checked="" type="radio"/> 无	¥0.00
<input type="radio"/> 宽屏液晶显示器	¥1,042.93
<input type="radio"/> 高清宽屏液晶显示器 1080p	¥1,203.38

CPU	
<input checked="" type="radio"/> 无	¥0.00
<input type="radio"/> CPU 4-Core	¥2,607.23
<input type="radio"/> CPU 6-Core	¥5,090.28

硬盘	
<input checked="" type="radio"/> 无	¥0.00

Enable end 2 end integration scenarios  
from configure (Configurator) to order  
(WC) to fulfillment (OMS)

## WC + Configurator + OMS integration

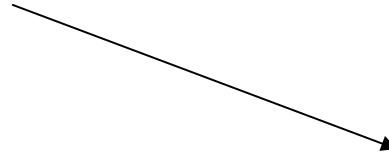
- **Business Scenario:** Orders with configuration items captured from WC storefront can be transferred to backend Sterling OMS and could be processed by inventory/fulfillment/service downstream systems smoothly
- **Business Value:** end 2 end flow for web/mobile channel (online channels)
- **Gaps:**
  - Inventory processing – check, reserve, cancel reservation
  - Order processing: order transfer, re-order

### \*Assumptions:

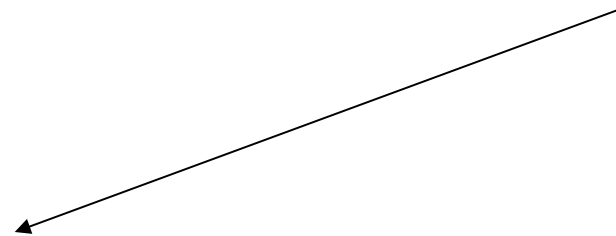
Configurator and OMS are in separated sterling instances

Configurator BOM validation was disabled in OMS side and Sterling Call Center can not handle dynamic kit configurations.

Step1: shopper configure a custom configuration by launch Product Configurator



Step2: shopper add the configuration item to WC shopping cart with inventory handled by backend OMS, and proceed with payment and checkout in WC.



Step3: Order with configuration item was transferred to from WC to Sterling OMS and proceed with release and shipment or return.

Support advanced features for PDK  
(Predefined Dynamic Kit, also known as  
PDC - PreDefined Configuration)

## PDK enhancements

- Model pre-defined configuration (PDC) as a catalog entry in WC catalog system
  - A new catalog entry type “**Preconfigured Dynamic Kit**” (PDK) is enrolled in WC catalog, together with existing “Dynamic Kit”
    - E.g. DK: “DVR Technics Build-Your-Own Desktop”
    - E.g. PDK: “DVR Technics 5000 Business Desktop”  
“DVR Technics 6000 Multimedia Desktop”  
“DVR Technics 7000 Gaming Desktop”
  - Inherited many useful capacities from being a new catalog entry
    - All main properties: like publish, buyable, start/end date...
    - Attribute Dictionary attributes
    - Support keyword/facet search and navigation in solr search
    - Support PDK to sales category
    - Support merchandizing association on PDK level
    - Support catalog filter/product entitlement on PDK level
    - Support pricing and promotions on PDK level
    - Support marketing activities on PDK level
    - Other features as a catalog entry, Ad Ribbon

## PDK enhancements (cont.)

- Support multiple PDK for a single Dynamic Kit
  - To align real business scenarios better
  - VM model association is on DK level and inherited by PDKs
  - CMC UI to List, Create, Update, Delete PDKs under a DK
- Ability to indicate whether a DK/PDK is configurable or not
  - Some customer only sell PDK without allowing DIY
- Ability to configure the PDK as a future context date time
  - Start date of PDK will be passed to Sterling Configurator
  - Date time sensitive rules in VM model will be triggered with this



DVR Technics Build-Your-Own Desktop Save and Preview Save Close

Manage Kit Search Engine Optimization **Configurator** Descriptive Attributes Merchandising Associations Associated Assets References

\* After you update the model, the predefined dynamic kits associated with this dynamic kit are removed.

Find and Add Visual Modeler

* Type	* Name	Path
	Build your own DVR Technics Desktops	OMS_005FAurora/Model_0020for_0020Desktops/Build_0020your_0020own_0020DVR_0020Technics_0020Desktops

0 of 1 selected

Configurable

- Model association is still on DK level
- Original PDC GUI was removed

# PDK Enhancements – PDK UI



Management Center Tools

Catalogs

File Edit View Help

Master Category  
 Category-level SKU  
 Product-level SKU  
 Product  
 Bundle  
 Kit  
 Predefined Dynamic Kit  
 Sales Catalog  
 Sales Category  
 Rule-Based Sales Category  
 Attribute Folder  
 Merchandising Associations  
 Catalog Upload  
 Attribute Dictionary Attribute With Assigned Values  
 Attribute Dictionary Attribute With Predefined Values  
 Attribute Assignments  
 Catalog Entry Assignments

Build-Your-Own Desks \*DVR Technics 7000 Gaming Desktop

Save and Preview Save Close

Manage Predefined Dynamic Kit Search Engine Optimization Configurator Descriptive Attributes Merchandising Associations Associated Assets

Keyword (United States English)

Manufacturer

Manufacturer part number

URL

Find and Add

\*Parent Dynamic Kit Code  
 DVR Technics Build-Your-Own Desktop

Recurring order item  Enabled  Disabled

Publishing

DVR Technics 7000 Gaming Desktops

Save and Preview Save Close

Manage Predefined Dynamic Kit Search Engine Optimization **Configurator** Descriptive Attributes Merchandising Associations Associated Assets

Model	Type	Name	Path
	Build your own DVR Technics Desktops		OMS_005FAurora/Model_0020for_0020Desktops/Build_0020your_0020own_0020DVR_0020Technics_0020Desktops

0 of 1 selected

\* Before you open Configurator or click Delete Preconfiguration, save the predefined dynamic kit. To view the preconfigured components

Configurator Delete Preconfiguration

Preconfigured Components	Type	Group Name	Code	Name	Quantity	Th
0 of 0 selected						

Configurable

Configure Your DVR Technics Build-Your-Own Desktop

**Memory**

- 2 GB Memory \$16.99
- 4 GB Memory \$32.99
- 8 GB Memory \$64.99

Reset

**Hard Drive**

- 500 GB Hard Drive \$84.99
- 1 TB Hard Drive \$104.99
- 2 TB Hard Drive \$134.99

Reset

**Video Card**

- 1 GB HD 7456 Graphics Card \$229.65
- 2 GB NVITOC GT Graphics Card \$229.65

# PDK Enhancements – PDK list under a DK



Management Center Tools Working on Approved Content

Catalogs

File Edit View Help

DVR Technics Build-Your-Own Desktop - Predefined Dynamic Kit

Sequence	* Type	Store	* Code	Name	Thumbnail	Display to Customers	Buyable
1.0		AuroraESite	DVR Technics 5000 Business Desktop	DVR Technics 5000 Business Desktop		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2.0		AuroraESite	DVR Technics 6000 Multimedia Desktop	DVR Technics 6000 Multimedia Desktop		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3.0		AuroraESite	DVR Technics 7000 Gaming Desktop	DVR Technics 7000 Gaming Desktop		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Master Catalog

Search Results

Compare View

Active Work

- DVR Technics Build-Your-Own Desktop
- \*DVR Technics 7000 Gaming Desktop
- \*DVR Technics 5000 Business Desktop

Unassigned Catalog Entries

Catalog Uploads

Search Term Associations

Default Catalog

Extended Sites Catalog As

- Apparel
- Electronics
  - Computers Accessories
  - Computers Components
  - Computers Desktops
    - DVR Technics Build-Your-Own Desktop
    - CDE021\_2101
    - CDE021\_2102
    - CDE021\_2103
    - CDE021\_2104
  - Computers Laptops
  - Computers Tablets

Apparel Hardware Electronics Grocery Health Home & Furnishing All Departments dvr technics All Departments

Home Search: dvr technics

SAVE 20% on all New Arrivals

RECEIVE 15% OFF Your Entire Purchase

### Category

Electronics (4)

Desktops (4)

### Filter by

#### PRICE

Between \$300 and \$400 (1)

Between \$400 and \$500 (1)

More than \$500 (1)

\$ - \$

#### BRAND

DVR Technics (4)

## Search results for "dvr technics" (4 matches.)

Products (4)

Articles & Videos (0)

PRODUCTS: ( 1 - 4 of 4 )

SORT BY:

Relevance

ITEMS PER PAGE:



New

DVR Technics 5000 Business Desktop

**\$347.63**

COMPARE



New

DVR Technics 6000 Multimedia Desktop

**\$429.63**

COMPARE



New

DVR Technics 7000 Gaming Desktop

**\$679.97**

COMPARE



DVR Technics Build-Your-Own Desktop

**Pricing based on options**

SAVE 20% on all New Arrivals

RECEIVE 15% OFF Your Entire Purchase

**Filter by** ✕ Clear All

✕ DVR Technics

**PRICE**

Between \$300 and \$400 (1)

Between \$400 and \$500 (1)

More than \$500 (1)

\$  - \$

## Desktops



PRODUCTS: ( 1 - 4 of 4 )

SORT BY:

Relevance

ITEMS PER PAGE:



SAVE 20% on all New Arrivals

RECEIVE 15% OFF Your Entire Purchase

## DVR Technics Build-Your-Own Desktop

SKU: DVR\_01

### Pricing based on options

Fully customizable desktop PC

Recurring Item

Availability

Online:  Status Not Available

Quantity | 1

Configure



### Description

Create the ideal desktop system for your needs. Select from a range of quality components from DVR Technics top brands, and use your budget where it matters most to you.

### Other Customers Also Purchased

SAVE 20% on all New Arrivals

RECEIVE 15% OFF Your Entire Purchase

## DVR Technics 5000 Business Desktop

SKU: DVR\_0101

**\$347.63**

All-in-one business-class PC

Recurring Item

Availability

Online: ✓ In Stock

Quantity

Add to Current Order

Reconfigure

Add to Requisition List



500 GB Hard Drive

SKU: CCM039\_390401

**\$84.99**

500 GB Hard Drive



1 GB HD 7456 Graphics Card

SKU: CCM039\_390501

**\$229.65**

1 GB HD 7456 Graphics Card

# Support flexible price-lock features



- Before FEP8:  
Modeler can only define price lock for all items or none items in the VM model
- After FEP8:  
Modeler can define price locking rules at any OC or OI levels in VM model, configuration pricing logic should respect these hybrid price locking rules well.

Model navigation | General Info | Display | Properties | Rules | Lists | Tables | Tabs | Worksheets

modelwithParent

**Edit Rule**

Set price lock in this rule

Comments:

Rule Triggered on:  Failure  Success

Firing Phases:  
 Initiate  Submit

Conditions:

and value(\*.GDA035\_350601.disk1\_quantity) >= 1 [Rule is true]

Actions:

- Message Actions
- Formula and Expansion Actions
- Assignment Actions

Property	Value	Assign To	Delete
CONFIG: PRICE LOCKED	1	*.GDA035_350601.disk1	X
UI: PRICE	13	*.GDA035_350601.disk1	X

•Before FEP8:  
Modeler can only define  
“fixed price” price lock, e.g.  
\$13

- After FEP8:  
Modeler should have the  
ability to define flexible  
price lock in VM  
model: e.g. formula  
based price lock, e.g.  
 $0.8 * \text{propval}(\text{“UI:Price”})$

The screenshot shows the IBM Modeler Rules configuration interface. The 'Edit Rule' tab is active, displaying the following configuration:

- Set price lock in this rule:** (Text input field)
- Comments:** (Text input field)
- Rule Triggered on:**  Failure  Success
- Firing Phases:**  Initiate  Submit
- Conditions:**
  - and  value(\*.GDA035\_350601.disk1\_quantity) >= 1 [Rule is true]
- Actions:**
  - Message Actions
  - Formula and Expansion Actions
  - Assignment Actions


Property	Value	Assign To	Delete
CONFIG: PRICE LOCKED	1	*.GDA035_350601.disk1	<input checked="" type="checkbox"/>
UI: PRICE	13	*.GDA035_350601.disk1	<input checked="" type="checkbox"/>

# Demo (video)

## Story

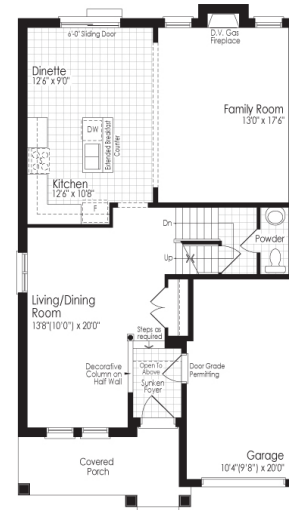
Jonna Construction Company purchases construction hardware and equipments from Aurora store  
They recently have a new project to build a series of houses and townhouses for a new community



## Scenario (Configurator integration):

Because of the new project, Jonna Construction Company hires 3 new sales representatives for the Home Presentation Center

James from the purchasing team of Jonna Construction Company needs to order 3 new custom configured computers for the 3 new hires.



Ground Floor Plan Elev. A & B

Thank You!

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