Kentico CMS E-commerce Guide 4.1

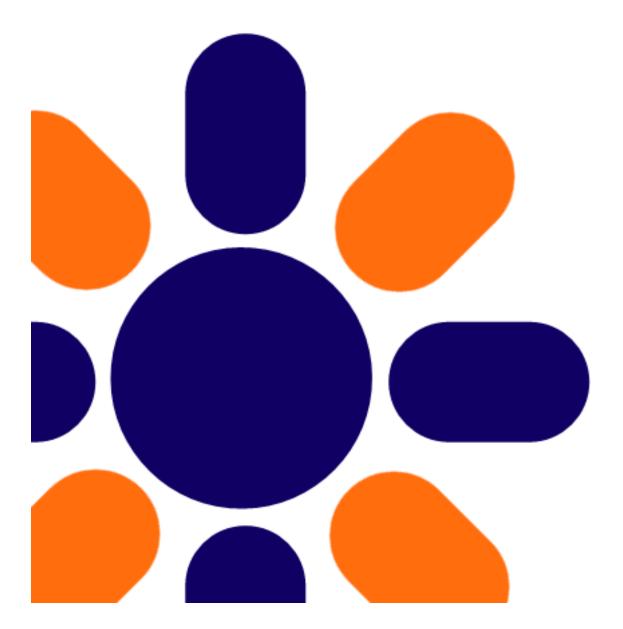


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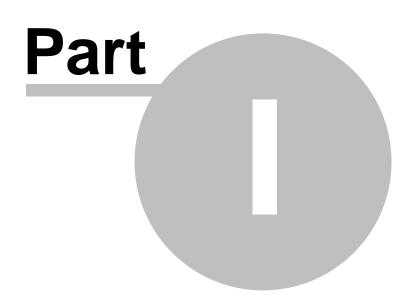
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1 E-commerce Guide

1.1 Kentico CMS E-commerce module

The Kentico CMS E-commerce module provides you with a range of out-of-box solutions for your Ebusiness. The task of developing and managing the e-business website, once painfully slow and complex, has been diminished to little more than few clicks.

For customers, the built-in E-commerce module offers a possibility of making purchase online through the integrated shopping cart, checking orders status, subscribing to a newsletter etc.

For site owners, the module offers tools for managing orders, shipping and payment options, products or manufactures lists and much more.

It supports:

- Product management
- Product options management
- Custom product types
- Product image gallery
- Product inventory
- Order management
- Customer management
- Multiple currencies
- Configurable tax calculation based on country and state
- Discount coupons
- Discount levels
- Volume discounts
- Wish list
- Custom providers for alternative shipping and tax calculations
- Custom checkout process
- Built-in payment processors, such as PayPal, Authorize.NET
- Custom payment processors
- Reports and statistics



2 Getting Started

2.1 Making your first purchase

For start, you will learn how to buy a product on your web site. This experience will help you in revealing any possible pitfalls which might be awaiting your customers on your web site.

1. Open your favorite internet browser and go to your website. Go to the **Products** tab and click the **Add to cart** button below **Nokia N82**.

E-commerce starter site	Electronics for you	My account My wishlist hopping cart is empty
Search	Home News Products How to buy Company	Sign In
Products » Cameras » Cell phones » MP3 Players » Notebooks » PDAs » PCs Poll	Products Canon Digital Rebel XTI Canon PowerShot A720 IS Nikon Coolpix S51	IPod Nano \$199.00 Pod Shuffle \$79.00 Nikon D40 \$490.00
How did you find this site? Referred by a friend Print advertising Link from another web site Search engine Vote	\$ 597.00 Add to cart \$ 195.00 Add to cart \$ 189.00 Add to cart	Experimental Systems Example 2/13/2008 Dear customers. our
Cuick links » How to buy » Company » News » Home	Nikon D40 Olympus Shlus FE-230 Pentax K10D \$ 490.00 Add to cart \$ 159.00 Add to cart \$ 804.00 Add to cart	shop now supports parments throuch ParVal You can use this feature from this day. 2/13/2008 Dear customers, our company has become Apple partner so you can buy Apple's great products at our shop.
	Apple iPhone LG KG 800 Motorola V3 Razr \$ 499.00 Add to cart \$ 190.00 Add to cart \$ 130.00 Add to cart	Newsletter subscription E-mail: OK
	Nokia 6300 Nokia N82 Samsung SGH (620 \$ 129.00 Add to carr \$ 490.00 \$ 650.00 Add to cart	
	Displaying results 1-12 (of 48) < < 1 - 2 - 3 - 4 ≥ ≥	
	Powered by	

2. Now specify your order. Choose **Black** as **Color** and enter 4 into the text box next the **Add to cart** button. You are about to add 4 pieces of Nokia N82 in black color to your shopping cart. Click **Add to cart**.

Nokia N82		
	Parameters: Width: Height: Weight(g): Display type: Display resolution: Bluetooth: IrDA: GPRS: EDGE: HSCSD: 3G: Wi-Fi: Java: Built-in camera: MP3 player:	112 50 114 TFT 16M colors 240 x 320 yes no yes yes yes yes yes yes yes yes yes yes
Our price: \$ 490.00		
Nokia N82 - Color Silver (+ \$ 0.00) Iack (+ \$ 10.00)		
Mdd to wishlist	(4)	📕 Add to cart

Step 1 of 6	Step 1 of 6 - Add some products to the shopping cart											
	Ş	•	8	\$	8	•	.	•	•			
Shoppi	ng cart											
									С	urrency: U.S. I	Dollar	*
Remove	Product name				Units		Unit price	Unit discou	nt	Tax	Subtot	al
	Nokia N82				4		490.00	29.4	0	184.24	2026.6	4
	- Black				4		10.00	0.0	0	4.00 🔍	44.0	0
					lf you h	ave a	coupon cod	e, please ente	er it here:			
										Total shippin	ig: \$0.0	00
										Total price:	\$ 2070.6	
											Update	
Contir	nue shopping										Check out	

3. You have been redirected to the shopping cart. In the Step 1, click the first Price detail button.

4. Now you can see detailed description of the price of your order including the volume discount and taxes. Close the window.

🖉 Shopping cart - Product price detail Webpage Dialog							
Product price detail							
Nokia N82							
Unit price without tax		\$ 490.00					
Discounts	Peru	ınit					
- Volume discount for minimal amount of 3 units	-6%	-\$ 29.40					
Price after discount		\$ 460.60					
Taxes	Peru	unit					
- Sales tax	+10%	+\$ 46.06					
Price with tax		\$ 506.66					
Units		4					
Total price		\$ 2026.64					
http://petrvo3/CMS31/CMSEcommerce/ShoppingCart/ShoppingCartSKUPr	🧐 Local intranet						

5. Now click the **Check out** button at the bottom.

Step 1 of 6 - Add some products to the shopping cart											
	Ş	•	8	\$	8	•	5,0	•	+		
Shoppir	ng cart										
									Currency:	U.S. I	Dollar 💌
Remove	Product name				Units		Unit price	Unit discount	Тах		Subtotal
	Nokia N82				4		490.00	29.40	184.24	۹	2026.64
	- Black				4		10.00	0.00	4.00	٩	44.00
					lf you h	ave a c	coupon code	e, please enter i	t here:		
									Total s	hinnin	ıg: \$0.00
									Total		\$ 2070.64
									Total		Update
Contin	ue shopping	7								\subset	Check out
	as suspend									-	under out

6. In the Step 2, choose Create a new account. Now enter information for your new account:

- First name: David
- Last name: Simons
- E-mail(user name): DavidSimons@gmail.com

Click Next.

Step 2 of 6 - Registration of	heck									
	•	2	•	8	•	, ,,	\$	•		
User registration										
O Sign in using your exis	ting acc	ount								
E-mail (user name):						*				
Password:						*				
Forgotten password										
Oreate a new account	_									
First name:	David					*				
Last name:	Simons	S				*				
E-mail (user name):	DavidS	imons@g	mail.co	om		*				
Company account:										
Password:	•••••	•••••				*				
Confirm password:	•••••	•••••				*				
O Continue as anonymo	us custo	mer								
First name:						*				
Last name:						×				
E-mail:						*				
Company (optional):										
Back									C	Next

- 7. In the Step 3, enter the new billing address:
 - Name (Company or personal): Development Soft
 - Address Line: 1020 Blueberry Ln.
 - City: TucsonZIP: 85754

Please note that you can choose the shipping or company address different from the billing address by checking one of the check boxes at the bottom. For now, just click Next, though.

Step 3 of 6 - Select billing and shipping address							
	≥ 2 → 💴 → 📑 → ≫						
Billing address							
Billing address:	(new)						
Name (company or personal)	Development Soft						
Address lines:	1020 Blueberry Ln.						
•							
City:	Tucson *						
ZIP:	85754						
	USA						
Country:	Alaska						
Phone number:							
My shipping address is different from the billing address.							
My company address is dif	ferent from the billing address						
Back	Next						

8. In the Step 4, you can choose the shipping and payment method for your delivery. Click Next.

Step 4 of 6 - Selec	ct payment and s	shipping m	ethods							
	;	8	•	8	•		•	•		
Shipping and	payment me	thods								
Shipping:	DHL					*				
Payment:	Cash on	delivery				~				
Back									\leq	Next

9. In the **Step 5**, make sure that you all the order information are correct. If everything looks right, click **Order now**.

Step 5 of 6 - Order preview	-	-				
Ş; ⇒	8 • 📧 • 🗐			•		
Order preview						
Billing address	Shipping address		Company	address		
Development Soft	Development Soft		Developm	ent Soft		
1020 Blueberry Ln.	1020 Blueberry Ln.		1020 Blue	berry Ln.		
Tucson	Tucson		Tucson			
85754	85754		85754			
USA, Alaska	USA, Alaska		USA, Alasł	ka		
Payment method: Cash on delivery Product name			option: DH Unit price		Тах	Subtota
					Тах	Subtota
Product name				Unit discount		Subtota 2026.64
Product name Nokia N82		Units	Unit price	Unit discount 29.40	184.24	
Product name Nokia N82		Units 4	Unit price 490.00	Unit discount 29.40 0.00	184.24	2026.64 44.00
Product name Nokia N82		Units 4	Unit price 490.00	Unit discount 29.40 0.00 Shi	184.24 4.00 pping:	2026.64 44.00 \$ 8.0
Payment method: Cash on delivery Product name Nokia N82 - Black Tax name		Units 4	Unit price 490.00	Unit discount 29.40 0.00 Shi	184.24 4.00 pping: price:	2026.64
Product name Nokia N82 - Black		Units 4	Unit price 490.00	Unit discount 29.40 0.00 Shi	184.24 4.00 pping: price:	2026.64 44.00 \$ 8.0 \$ 2078.6
Product name Nokia N82 - Black Tax name		Units 4	Unit price 490.00	Unit discount 29.40 0.00 Shi	184.24 4.00 pping: price:	2026.64 44.00 \$ 8.0 \$ 2078.6 summar
Product name Nokia N82 - Black Tax name Sales tax		Units 4	Unit price 490.00	Unit discount 29.40 0.00 Shi	184.24 4.00 pping: price:	2026.64 44.00 \$ 8.0 \$ 2078.6 summar

If everything went well, you can see the confirmation text.

Thank you for your order

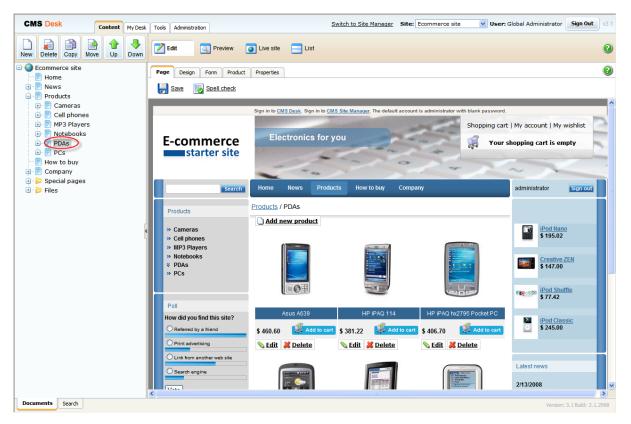
We have received your order and we will process it within 24 hours.

This is a sample page showing the confirmation text. You can configure your payment methods in **Tools -> E-commerce -> Configuration -> Payment methods** so that the user is redirected to some third-party on-line payment gateway, such as Authorize.NET, PayPal and others.

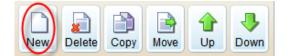
Congratulations, you've just made your first order.

2.2 Adding new products

- 1. Sign in to CMS Desk.
- 2. Go to CMS Desk -> Products -> PDAs.



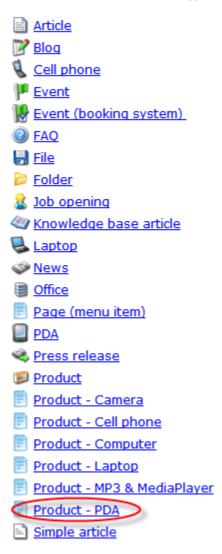
3. Click New at the document action toolbar.



4. Choose the **Product - PDA** document type.

New document

Please select new document type:



5. Adding new product is two step process. Firstly, you enter attributes for the new document. Secondly, you enter attributes for the new product. For explanation about the difference between these two please see the box at the end of the Products chapter. Now enter attributes for the new document:

- Name: HTC Touch Cruise
- Battery: Lithium ion
- Display type: TFT LCD
- **Resolution:** 240×320
- RAM(MB): 128
- Processor(MHZ): 400
- Weight(g): 200
- Operating system: Microsoft Windows Mobile 6

Now enter attributes for product itself. Check the **Create a new product** checkbox and enter 900 as **Price**. Click **Save** at the top to save your new product.

Products + PDAs	
	Save and create another Spell check
Name:	HTC Touch Cruise
Battery:	Lithium ion
Display type:	TFT LCD
Resolution:	240×320
RAM (MB):	128
Processor (MHz):	400
Weight(g):	200
Operating system:	Microsoft Windows Mobile 6
Publish from:	Now
Publish to:	Now
🗹 Create a new pr	oduct
Price:	900
Product image URL	Upload: Browse

The new camera has been added to your product list.

🕒 НТС	Touch Cruise			
	0	Parameters: Battery: Display type: Resolution: RAM (MB): Processor (MHz): Weight(g): Operating system:	Lithium ion TFT LCD 240×320 128 400 200 Microsoft Windows Mobile 6	
N Our price:	lo image \$ 900.00			
Mdd to v	wishlist		1 Add to cart	
		ibes how to crea u can also cho	locument ate a new product while cro pose to create product fr	
	Product tab. The existing product,	n check Mark you can use an	ven document in the conte document as product. existing product as a tem et, you can create a new or	By choosing Select an plate for a new product.

2.3 Adding product options

20

In Kentico CMS, product options can be defined for each product. With specified product option for the given product, you can offer your customers greater variability in choosing the right product and boost your sales as well. In this chapter, you will learn how to set up a new product option for the product which hasn't had any product option specified so far.

1. Go to CMS Desk -> Tools -> E-commerce -> Product options.

CMS Desk Content	My Desk	Tools		Switch to	Site Manager	Site: E-commerce Site	Vser: Global Administrator	Sign Out	t v3.1
	🗐 E-c	ommerce							
	Orders	Customers Products Product opti	ions Manufacturers Su	ppliers Discount coupons	Discount levels	Reports Configuration			
E-commerce	🗐 O	ption categories						2	-
File import		v option category							
Newsletter	was new	v opuori categor y							
Polls	Name	LIKE 💙							
🚮 Web Analytics	S	how							
	Actions	s Name Cell phones accessories	Selection type Checkboxes - horizontal	Enabled					
		Creative Zen Stone - Color	Dropdown list	True					
		iPod Shuffle - Colors	Radiobuttons - vertical	True					
		Nokia 6300 - Color	Dropdown list	True					
	N 🗶	Nokia N82 - Color	Radiobuttons - vertical	True					
	S 🗶	Notebooks - AMD CPU	Dropdown list	True					
	💊 🗶	Notebooks - DDR2 modules	Dropdown list	True					
	💊 🗶	Notebooks - HDD	Dropdown list	True					
	💊 🗶	Notebooks - Intel CPU	Dropdown list	True					
	💊 🗶	Operating systems	Dropdown list	True					
	💊 🗶	PCs - Cases	Dropdown list	True					
	💊 🗶	PCs - CD/DVD ROM/RW, BlueRay	Dropdown list	True					
	💊 🗶	PCs - CPU AMD	Dropdown list	True					
	💊 🗶	PCs - CPU Intel	Dropdown list	True					
	S 🕺	PCs - Graphics card	Dropdown list	True					
	S 🕺	PCs - HDD	Dropdown list	True					
	S 🕺	PCs - Memory modules	Dropdown list	True					
	N 20	PCs - Monitors	Dropdown list	True					
	N #	PCs - Motherboards	Dropdown list	True					~

- 2. Click New option category. Rew option category
- 3. Enter Color into the Category name text box and click Ok.

Rew option category	
Option categories New option category	
Category name: Color	

4. Select Checkboxes in vertical layout from the Selection type drop-down menu.

Option cate	egory properties		
Option categories	Color		
General Options			
The changes were	saved.		
Category name:	Color		
Selection type:	Checkboxes in vertical layout	~	
Default option(s):	(No product options defined)		
Description:		~	
		~	
Default record text	:		
Enabled:	\checkmark		
	ОК		

5. Switch to the **Options** tab and click **New product option**.

Option category properties
Option categories Color
General Options
New product option I Sort A-Z

6. Enter *Black* into the **Product name** text box, *0* into the **Price** text box and choose **General** from the **Department** drop-down menu. Then click **Ok** at the bottom.

Option category	properties		
Option categories + Color			
General Options			
Product options New p	roduct option		2
Product name:	Black		
Product number:			
Description:	B Z ∰ ⊞ 🕵 🙈 👰		
		~	
Price:	0		
Enabled:			
Department:	General	×	
Manufacturer:	(none)	×	
Suplier:	(none)		
Public status:	(none)		
Internal status:	(none)	×	
Availability (days):			
Product image URL:	Upload: Br	owse	
Package	L		
Package weight:			
Package height			
Package width:			
Package depth:			
Inventory			
Available items:			
Sell only if items are availa	able:		
con only interno are availa			
	ОК		

6. Click the **Options** tab and then click **New product option** again.

7. Now enter *Silver* as **Product name**, *10* as **Price** and choose **General** as **Department**. Then click **Ok**.

- 8. Click the Options tab and New product option again.
- 9. Enter Green as Product name, -10 as Price and choose General as Department. Then click Ok.

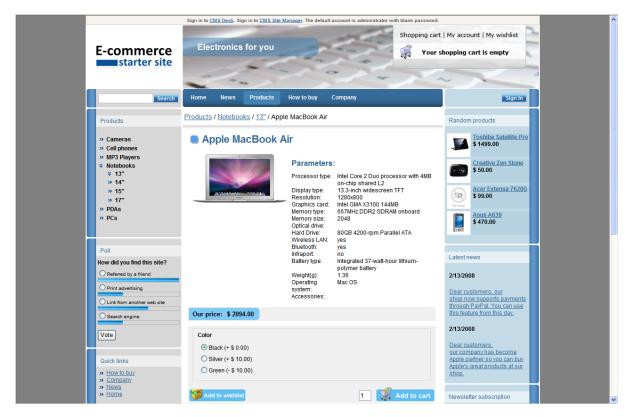
10. Now switch to **Products** tab and click the **Edit** button next to the **Apple MacBook Air** product name.

CMS Desk Conte	nt My Desk Tools Administration		Switch to Site Manager Site: E-comme	rce Site 👻 User: Global Administrator Sign Out
BizForms	Secommerce			
🖟 Booking system	Orders Customers Product options M	anufacturers Suppliers Discount	coupons Discount levels Reports Configu	ration
······································	Products			0
	New product			
	Product name:			
Web Analytics	Product number:			
	Department: (all my departments)	~		
	Public status: (all)	~		
	Internal status: (all)	~		
	Sites: (all)	~		
	Show			
	Actions Product name Product nu Actions Product name Product nu Actions Product name Product nu	941 2	items Public status Internal	status Enabled True
	Acer Configurator	899 0		True
	Acer configurator	899 2		True
	Acer Extensa 7620G	99 0		True
	S X Apple iPhone	499 3	Show as featured product	True
	Apple MacBook Air	2094 -3		True
	💊 🗶 Asus A639	470 1		True
	Naus F3U AP059C	999 1		True
	💊 其 🛛 Canon Digital Rebel XTi	597 2	Show as featured product	True
	💊 👗 Canon PowerShot A720 IS	195 95		True
	💊 💥 Compaq Presario	659 0		True
	💊 💥 Configurable PC	0 1		True
	S K Creative ZEN	150 -4	Show as featured product	True
	💊 💥 Creative Zen Stone	50 0		True

11. Switch to the **Options** tab, check the **Select** checkbox next to the **Color** option category and click **Save**.

Products
Apple MacBook Air

Genera	al Ta Save	ax classes Volume discounts Optic	ons
	Select	t Option category	Enabled
		Cell phones accessories	True
Sa (Color	True
\sim		Creative Zen Stone - Color	True
\sim		iPod Shuffle - Colors	True
\sim		Nokia 6300 - Color	True
S		Nokia N82 - Color	True
		Notebooks - AMD CPU	True
		Notebooks - DDR2 modules	True

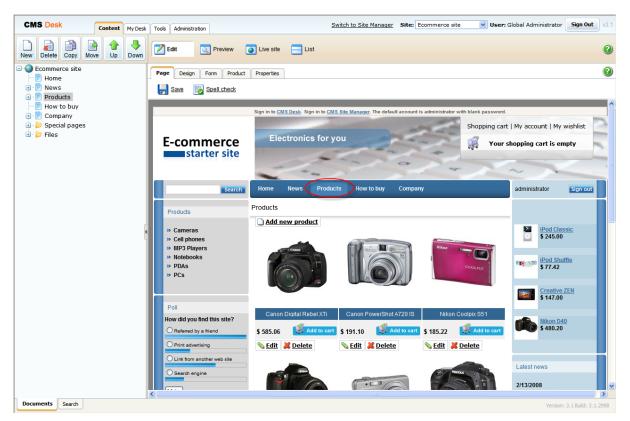


The new product option has been added to the **Apple MacBook Air** product.

For information how to display product options in product detail please refer to the Adding items to the shopping cart chapter.

2.4 Customizing product categories

1. Go to CMS Desk -> Content and choose Products in the content tree.



2. Click New at the document action toolbar.



3. Choose the Page(menu item) document type.

New document

26

Article
📝 <u>Blog</u>
<u>Cell phone</u>
P Event
腸 Event (booking system)
EAQ
🛃 <u>File</u>
눧 <u>Folder</u>
🤰 Job opening
🖉 Knowledge base article
Laptop
-
News
<u>News</u>
✓ <u>News</u> Image: Image of the second seco
News Image: Office Page (menu item)
 News Office Page (menu item) PDA
 News Office Page (menu item) PDA Press release
 News Office Page (menu item) PDA Press release Product
 News Office Page (menu item) PDA Press release Product Product - Camera
 News Office Page (menu item) PDA Press release Product Product - Camera Product - Cell phone
 News Office Page (menu item) PDA Press release Product Product - Camera Product - Cell phone Product - Computer
 News Office Page (menu item) PDA Press release Product Product - Camera Product - Cell phone Product - Computer Product - Laptop

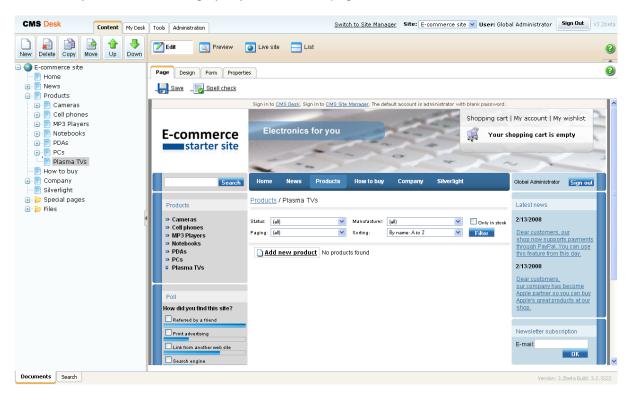
Please select new document type:

4. Enter *Plasma TVs* as the **Page name**, make sure the **Use page template** radio button is selected and choose **E-commerce -> Ecommerce - Products** template. Click **Save**.

Products	
Save and create another Beell check	
Page name: Plasma TVs	
 Use page template Inherit from parent page Create a blank page 	

5. Your new page has been appended to the **Products** page. Now use the **Down** button at the document action toolbar to move it to the bottom of the section.



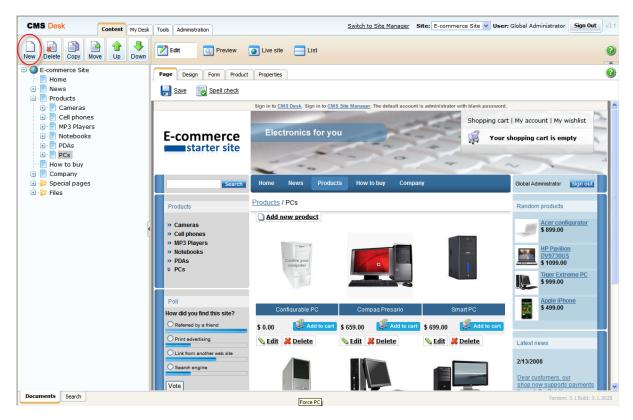


That's how you add a new category to your **Products** page.

2.5 Adding product to multiple categories

You might need to add some product into more than one category. This chapter will help you to learn how to add a product to multiple categories.

1. Go to CMS Desk -> Content -> Products -> PCs and click New at the document action toolbar.



2. Click Link an existing document at the bottom.

New document

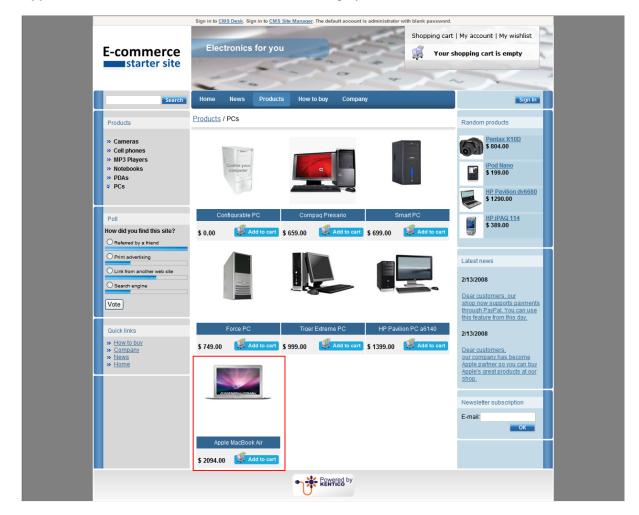
Please select new document type:

_
Article
FAQ
🛃 <u>File</u>
Distance Folder
🧟 Job opening
🗇 <u>News</u>
I Office
📄 <u>Page (menu item)</u>
📄 <u>Plasma TV</u>
👒 <u>Press release</u>
🖚 <u>Product - Camera</u>
Product - Cell phone
💵 <u>Product - Computer</u>
🖳 <u>Product - Laptop</u>
Product - MP3 & MediaPlayer
Product - PDA
Simple article
Link an existing document

3. Now select Apple MacBook Air at E-commerce Site -> Products -> Notebooks -> 13" and click Save.

Products PCs Save and create another	
Please select the document to be linked:	
Site: E-commerce Site 💌	
 E-commerce Site Home Products Cameras Cameras<	

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Apple MacBook Air has been added to the PCs category.

Please note:

- While copying a document, the same product (with the same SKU) that has been linked to the original document is linked to the new document as well.

- While creating link to an existing document, a product (SKU) is not directly related to the given link. The newly created link is an "image" of the existing document, so that the product is linked to the original document only.

2.6 Displaying featured products

1. Go to CMS Desk -> Tools -> E-commerce and choose Products tab.

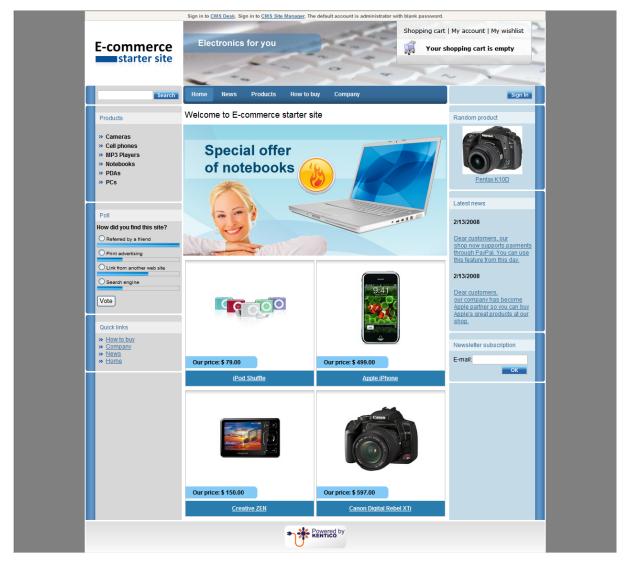
Cont	tent My Desk Tools A	Administration		Swi	tch to Site Manager	Site: E-commerce Site	e ⊻ User: Global Administrator	Sig
BizForms	Secommerce	e						
Booking system	Orders Customers	Products Product option	Manufacturora Sunal	iora Discount cours	Discount lough	Reports Configuration		
Content staging		Froduces	is Manufacturers Suppr	iers Discourt coup	Joins Discouncieveis	Coniguration		
=-commerce	Products							6
Forums	New product							
Newsletter								
Polls Reporting	Product name:							
Web Analytics	Product number:							
	Department: (;	(all my departments)	~					
		(all)	*					
		(all)	*					
		(all)	*					
		Show						
	Actions Product	name Produ	ct number Product pri		ns Public status	Internal status	Enabled	
	💊 👗 Acer Aspir	ire 3105WLMi	941	0	ns Public status	Internal status	True	
	Acer Aspir	r name Produ ire 3105WLMi figurator	941 899	0	ns Public status	Internal status	True True	
	Acer Aspin	iname Produ ire 3105WLMi figurator figurator	941 899 899	0	ns Public status	Internal status	True True True	
	Acer Aspir	iname Produ ire 3105WLMi figurator insa 7620G	941 899 899 99	0 0 0	ns Public status	Internal status	True True True True	
	Acer Aspin	name Produ ire 3105WLMi figurator figurator insa 7620G ione	941 899 899 99 499	0 0 0	ns Public status	Internal status	True True True True	
	Acer Aspin	rame Produ ire 3105WLMi figurator figurator insa 7620G tone ccBook Air	941 899 899 99 499 2094	0 0 0 0 0	ns Public status	Internal status	True True True True True True	
	Acer Aspli	rame Produ ire 3105WLMi figurator figurator none ccBook Air 339	941 899 899 99 499 2094 470	0 0 0 0 0 0	ns Public status	Internal status	True True True True True True True	
	Acer Aspi Acer Aspi Acer confi Acer confi Acer confi Acer confi Acer Exter Add Acer Exter Acer Aspi Acer Exter Acer Aspi Acer Exter Acer Aspi Acer Aspi Acer Aspi	rame Produ ire 3105WLMi figurator figurator insa 7620G ccBook Air 39	941 899 99 499 2094 470 999	0 0 0 0 0 0 0			True True True True True True True True	
	Acer Aspi Acer Aspi Acer confi Acer confi Acer confi Acer confi Acer Exter Ace	rame Produ ire 3105WLMi figurator insa 7620G ccBook Air ccBook Air 39 J AP059C igital Rebel XTi	941 899 99 499 2094 470 999 597	0 0 0 0 0 0 0 0 0		Internal status Show as featured produ	True True True True True True True True	
	Acer Aspi Acer Aspi Acer confi Acer confi Acer confi Acer confi Acer Exter Ace	rame Produ ire 3105WLMi figurator	941 899 99 499 2094 470 999 597 195	0 0 0 0 0 0 0 0 0 0			True True True True True True True True	
	Acer Aspi Acer confi Acer confi Acer confi Acer Exter Acer Exter Apple Mac Apple Mac Asus F3U Acus F3U Canon Di Canon Di Canon Di Canon Pic	rame Produ ire 3105WLMi figurator	941 899 899 499 2094 470 999 597 195	0 0 0 0 0 0 0 0 0 0 0 0			True True True True True True True True	
	Acer Aspi Acer Aspi Acer confi Acer confi Acer confi Acer confi Acer Exter Ace	rame Produ ire 3105WLMi figurator	941 899 99 499 2094 470 999 597 195	0 0 0 0 0 0 0 0 0 0			True True True True True True True True	

2. Click the **Edit** button next to the product which you want to display as a featured product.

💊 🗶	Acer Aspire 3105WLMi
💊 🗶	Acer configurator
💊 🗶	Acer configurator
Sa 📈	Acer Extensa 7620G
	Apple iPhone
💊 🐰	Apple MacBook Air

3. From the **Public status** drop-down menu, choose **Show as featured product** and click **Ok** at the bottom.

General	Tax classes	Volume discount	s Options
Product	name:	Apple	iPhone
Product	number:		
Descript	ion:	E	3 Ⅰ 5 Ξ Ξ 🚷 🐘 🕄
			~
		mak	one is a revolutionary new mobile phone that allows you to te a call by simply tapping a name or number in your address
			k, a favorites list, or a call log. It also automatically syncs all contacts from a Windows PC, Mac, or Internet service. And it
			you select and listen to voicemail messages in whatever er you want — just like email.
			~
Price:		499	
Enabled	:		
Departm	ent	Phon	es 💌
Manufac	turer:	Apple	•
Suplier:		(none	e)
Public st	atus:	Show	v as featured product
Internal s	status:	(none	e) 👻
Availabili	ity (days):	0	
Producti	image URL:	💥 <u>i</u> r	phone_hero.jpg
rivuutti	maye onL.	Uplo	ad: Browse
Package	•		
Package	weight		
Package	height:		
Package	width:		
Package	depth:		
Inventor	y		
Available		3	
Sell only	if items are a	available: 📃	
			<u>ok</u>

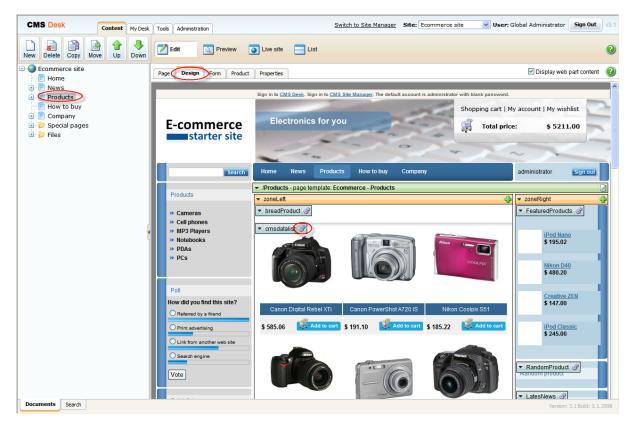


Your product has been added to the featured products.

On home page, by default there are displayed 4 products randomly chosen from all products with public status set to **Show as featured product**. Should you want set different filters for displaying products on you home page or should you need more information about the **Random products** web part, please refer to theRandom products chapter.

2.7 Sorting and paging products

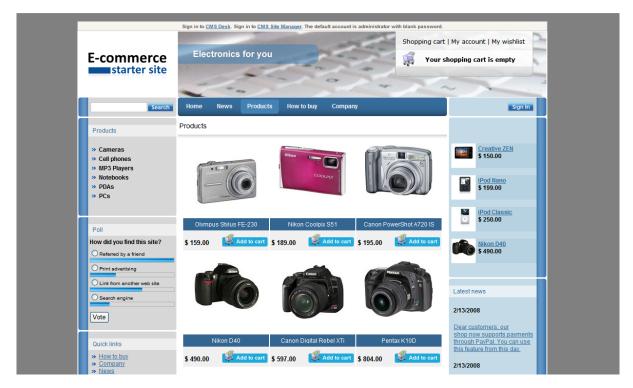
1. Go to **CMS Desk** -> **Products** and switch to the **Design** tab. Click the **Configure** button of the **cmsdatalist** web part.



2. In the webpage dialog, find the **Content filter** section and enter *SKUPrice ASC* into the **ORBER BY expression** text box, then find the **Paging** section and enter *16* into the **Page size** checkbox. Now click **Ok**.

🖉 CMS Desk - Web Part properties	Webpage Dialog	X
📸 Web part properties (Da	talist)	Documentation
Properties Layout		
Content filter		~
Content Inter		
Document types:	CMSProduct.Camera;CMSProduct Select	
	○ Yes	≣
Combine with default culture:	○ No	
	Our Settings	
Culture code:	Select	
Maximum nesting level:	-1	
ORDER BY expression:	SKUPrice ASC	
onder of expression.	SKOFILE AGO	
Select only published:		
Select top N documents:		
Site name:	Select	
WHERE condition:	NODESKUID IS NOT NULL	~
Refresh content	OK Cancel	Apply
http://petrvo3/CMS31/CMSDesk/PortalEngine	/WebPartProperties.aspx?aliaspath=%2fProducts8zoneid=zoneLeft8webpartid 😏 Local intra	net:

🖉 CMS Desk - Web Part properties	Webpage Dialog					×
📸 Web part properties (Da	alist)				(1) Document	<u>tation</u>
Properties Layout						^
Paging						
Enable paging:						
Paging mode:	Query string	~				
Navigation buttons:	Split	~				
Pager position:	Bottom	*				
Page size:	16]			
Query string key:						Ξ
Show first and last buttons:						
HTML before:		×				
HTML after:		× ···				
Results position:	Тор	~				~
Refresh content http://petryo3/CMS31/CMSDesk/PortalEngine			ж	Cancel	Apply	



3. Switch to the **Preview** viewing mode. You can see that the products are sorted from the cheapest to the most expensive and there are 16 of them.

Sorting products You may decide to sort products in a different way. Should you want to sort products from the most expensive to the cheapest, you would enter SKUPrice DESC into the ORDER BY expression text box. You can choose to sort products alphabetically as well. For sorting from A to Z, enter NodeName ASC. For sorting from Z to A, enter NodeName DESC into the ORDER BY expression text box.

2.8 Changing company details

In this chapter, you will find out how to change your company details and add a new office.

Changing company details

1. Go to CMS Desk -> Content -> E-commerce Site -> Company -> New York Office and switch to the Form tab.

CMS Desk Content My Desk	k Tools Administration Switch to Site Manager Site: E-commerce Site V User: Global Administrator Sign Out V	3.1
New Delete Copy Move Up Down		2
E-commerce Site Home News	Page Design Form Product Properties	2)
How to buy - E Company New York Office - Special pages - Files	Image: Source Q Image: Source Image: Source <td>~</td>	~
Fries	Office name: New York Office Company name: Our company name Address line 1: Address line 1 Address line 2:	
Documents Search	Office directions: Version: 3.1 Build: 3.1.305	≥ 5

- 2. Enter your new company details:
 - Address line 1: 316 W 49th St
 - City: New York City
 - **ZIP code**: 10019
 - State: NY
 - Country: United States

Then click Save.

(Soe 🗟 Spe	II check
	🗐 Source 🛛 🐧 🐰	в®®® #
	🛛 🐼 🖉 🥅 🔛	
	Style	🔻 Format 🔍 🔻 Font 🔍 👻 Size 🔤 🐨 🐨 🐨 🔛 😨
	Office name:	New York Office
	Company name:	Our company name
	Address line 1:	316 W 49th St
	Address line 2:	
	City:	New York City
	ZIP code:	10019
	State:	NY
	Country:	United States
	Phone:	123-456-789
	E-mail:	sales@mydomainXY.com

Please note: You can change the transformation of the company detail at CMS Desk -> Content -> E-commerce Site -> Company -> New York Office -> Design -> <edit CompanyDetails> -> Transformations -> Transformation.

CMS Desk Content	My Desk	Tools Administration	Switch to Site Manager Site: E-commerce Site 💌 User: Global Administrator Sign Out V3.1
New Delete Copy Move Up	Jown	Edit OPreview	Live site List
E-commerce Site Home		Page Design Form Pro	
Image: Imag			Sign in to CMS Desk. Sign in to CMS Site Manager. The default account is administrator with blank password.
Products For to buy Company		KENTICO CM	
New York Office		Searc	Home News Products How to buy Company Your shopping cart is empty out
😟 🞾 Special pages 🕙 🎾 Files		Destate	✓ /Company/New York Office - page template: Ecommerce - Company
		Products	▼ zoneHeader
		» Cameras	· Title ♂
		 Cell phones MP3 Players 	▼ zoneContent
		» Notebooks	CompanyDetails () York Office GoogleMaps () GoogleMaps () GoogleMaps ()
		» PDAs	Bidowood
		» PCs	Our company name New York Office
			🖉 CMS Desk - Web Part properties Webpage Dialog 🛛 🛛 🔀
	L	Poll	Web part properties (Repeater)
		How did you find this site?	Properties
		Referred by a friend	WHERE condition:
		O Print advertising	
		O Link from another web site	Filter out duplicate documents:
		O Search engine	
			Transformations
		Vote	Transformation: Ecommerce, Transformations, Ecorr Select Edit
		Quick links	Alternating transformation: Select Edit
		» <u>How to buy</u> » <u>Company</u> » <u>News</u> » <u>Home</u>	Selected item transformation: Select Edit
Documents Search			Nem separator.

Creating new office

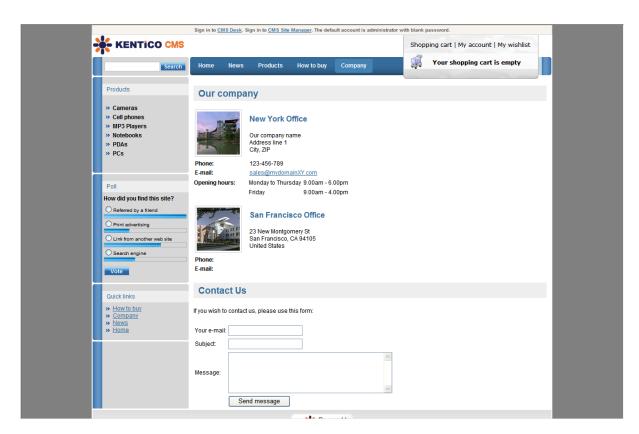
1. Go to **CMS Desk** -> **Content** -> **E-commerce Site** -> **Company** and click the **New** button from the document action toolbar.

- 2. Choose Office as the new document type.
- 3. Now enter details for your new office:
 - Office name: San Francisco Office
 - Address line 1: 23 New Montgomery St
 - City: San Francisco
 - **ZIP code**: 94105
 - State: CA
 - Country: United States

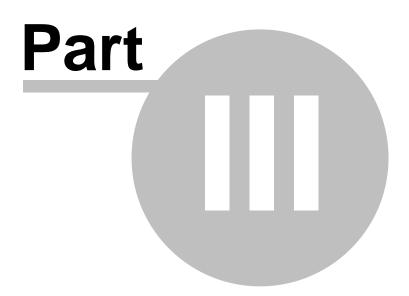
Then scroll down a little bit and click **Browse** to select an image as **Office photo**. Then click **Save**.

Save 🔒 Save	e and create another 🛛 🔂 Spell check
i 🔜 🖉 🥅 🏪 🥥	ⓑ ⓑ ⓑ ❷ ❷ ♡ ♀ ₩ 號 Ⅲ ∅ В ӏ ⊻ ₩ ≍ ҂ ☷ ☷ ோ ோ इ 吾 吾 ■ \$ \$ \$ \$ \$ \$
Style	 Format Format
Office name:	San Francisco Office
Company name:	
Address line 1:	23 New Montgomery St
Address line 2:	
City:	San Francisco
ZIP code:	94105
State:	CA
Country:	United States
Phone:	
E-mail:	
Office directions:	
Latitude:	
Longitude:	
Office photo:	Upload: C:\Documents and Setting Browse

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Please note: In the **Form** tab, you can use the **Office description** text box to enter additional information about your office (e.g. opening hours). Should you feel this text box is not convenient for you (for instance you want to edit displayed text in the **Page** tab), you can always leave Office description blank and add the Text -> Editable text web part on the page instead.



Customizing the product fields 3

3.1 Defining a new product type

1. Go to Site Manager -> Development -> Document Types.

AS Site Manager sit	tes Administ	ration	Settings	Development	Licenses	Support	Buy	Switch to CMS Desk	User: Global Administrator	Sign Out
velopment										
SS stylesheets CSS countries		Doci	iment Ty	pes						
Countries (1) Countries	1 6	lew Do	ument Type							
Cocument types										
🖂 E-mail templates	Acti	ons	Display n	ame	Code na	me				
af Form controls		K 📬	Article		CMS.Artic	le				
🛃 Modules	S .	K 📬	Blog		CMS.Blog	,				
Page layouts	N 1	K 📬	Blog mont	h	CMS.Blog	Month				
le page templates		K 📬	Blog post		CMS.Blog	Post				
Relationship names System tables		K 📬	Cell phone	9	CMS.Cell					
Tures			Event		CMS.Ever	nt				
Web part containers				king system)		kingEvent				
🍓 Web parts			FAQ	ang ojotom)	CMS.Faq	-				
☑ Web templates ✓ Workflows			File		CMS.File					
			Folder		CMS.Fold					
			Job openii		CMS.Job					
				e base article	CMS.KBA					
			-	e base anicie						
			Laptop		CMS.Lap					
			News		CMS.Nev					
		K 🗳			CMS.Offic	-				
			Page (mer	nu item)	CMS.Men					
		K 🕥	PDA		CMS.Pda					
		× 🖷	Press rele	ase		ssRelease				
		X 🗳	Product		CMS.Pro					
	S 6	X 📬	Product - C		CMSProd	luct.Camera	3			
	S .	X	Product - C	Cell phone	CMSProd	uct.CellPho	one			
	S 6	X	Product - C	Computer	CMSProd	luct.Compu	ter			
	S 6	X	Product - L	aptop	CMSProd	luct.Laptop				
	S 6	X 🗳	Product - N	IP3 & MediaPlaye	CMSProd	luct.MediaP	layer			
	S 6	K 📬	Product - F	PDA	CMSProd	luct.PDA				

2. Click New Document Type. 🔞 New Document Type

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3. You have been redirected the **New document type** wizard.

In the Step 1, enter:

- Document type display name: Plasma TV
 Document type code name: CustomProduct (namespace), television (document type)

Click Next.

Step 1 Gene Please		users) and code name (it will be used in your code	when necessary).
Document type display name:	Plasma TV		
Document type code name:	CustomProduct	television	
	namespace	document type	
			Next

4. In the Step 2, leave the default values and click Next again.

5. In the Step 3, you are asked to define attributes for the new document type. Click the New Attribute



- Attribute name: TVName
- Attribute size: 100
- Field caption: Product name

From the Field type drop-down list, choose Textbox and click Ok.

	Database		^
	Attribute name:	TVName	
T	Attribute type:	Text	
Ŷ	Attribute size:	100	Ξ
	Allow empty value:		
	Attribute default value:		
-	Display attribute in the	editing form	
ф	Field		
×	Field caption:	Product name	
~	Field type:	Text Box 🗸	
		×	
			~
		ОК	\geq

- 6. Click New Attribute again. Enter:
 - Attribute name: TVScreenType
 - Attribute size: 100
 - Field caption: Screen type

From the Field type drop-down list, choose Textbox and click Ok.

	Database		
	Attribute name:	TVScreenType	
T	Attribute type:	Text	
•	Attribute size:	100	
	Allow empty value:		
7	Attribute default value:		
	Display attribute in the e	diting form	
þ	Field		
~	Field caption:	Screen type	
~	Field type:	Text Box	
		~	

7. Now click **New Attribute** again and enter information for the last attribute:

- Attribute name: TVScreenSize
- Attribute type: Integer number
- Field caption: Screen size in inches

From the Field type drop-down list, choose Textbox and click Ok.

		ustom attributes of the docur t number, product weight, pro	nent type and their appearance in the editing form. You can define attr ass release text, etc.	ibutes,
televisionID TVName TVScreenType New Attribute	∂ ₽	Database Attribute name: Attribute type: Attribute size:	TVScreenSize	
	8	Allow empty value: Attribute default value: Display attribute in the e	diting form	
	+ ×	Field Field caption: Field type:	Screen size in inches Text Box	
			ОК	Next

8. In the Step 4, choose TVName in the Document name source drop-down list. Click Next.

Step 4	Additional settings Please choose the source field that will be used as a document name. You can choose either one of the custom fields or you can choose to use document name as a separate field.
Document name	source:
	Next

9. In the Step 5, check the Page(menu item) checkbox. Click Next.

Ste	p 5 Parent typ Please selec	es t document types under which this document template can be placed.	
	File	CMS.File	^
	Folder	CMS.Folder	
	Job opening	CMS.Job	
	Knowledge base article	CMS.KBArticle	
	Laptop	CMS.Laptop	
	News	CMS.News	
	Office	CMS.Office	
	Page (menu item)	CMS.Menultem	
	PDA	CMS.Pda	
	Plasma TV	CustomProduct.television	
	Press release	CMS.PressRelease	
	Product	CMS.Product	~
		Next	\supset

10. Now make sure that the Select checkbox next to the Ecommerce site is checked and click Next.

Step 6		es ase select	sites whe	re this doc	ument type	can be used:			
Select Site nam	ne								
Ecomme	erce site								

11. Click Finish.

12. Now go to **CMS Desk** -> **Products** -> **Plasma TV** and click **New** at the document action toolbar. You'll see that you can choose **Plasma TV** as the new document type.

Adding attributes This chapters explains how to add an attribute to specific document type. (e.g. product-camera, product - cell phones). For adding attribute common to all products, please refer to the Adding product
custom fields chapter.

Changing document type icon

The default icon is created with the new document type. Should you want to replace <your web project folder> this icon with your own, go to \App Themes\Default\Images\ CMSDesk\Icons\ and find the file named <namespace>_<your new document type>.gif (in our example, this is going to be CustomProduct_television.gif). All you have to do is replace this file with the image file of your new icon. Please note that the new file has to be named the same as the one being replaced.

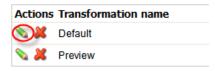
3.2 Customizing product design

Editing existing transformation

1. Go to **CMS Site Manager -> Development -> Document types**, choose the **Plasma TV** document type and switch to the **Transformation** tab.

CMS Site Manager Sites	Administration Settings Development Licenses Support Buy	Switch to CMS Desk	User: Global Administrator	Sign Out v3.1
Development CSS stylesheets	Document Type Properties			0
Countries	Document Types + Plasma TV			
E-mail templates	General Fields Form Transformations Queries Child types Sites E-commerce			
	New Transformation			
	Actions Transformation name			
- 🦂 Page templates - 📲 Relationship names	V X Preview			
System tables 🖓 UI cultures				
Web part containers				
 Web templates Workflows 				
1				

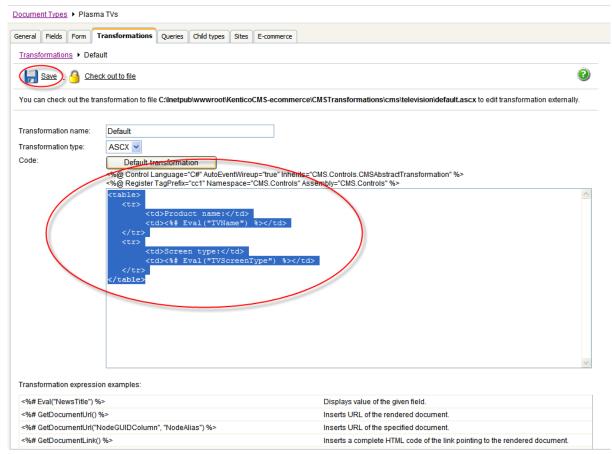
2. Click the Edit transformation button next to the Default transformation name.



3. Delete the content of the **Code** text box and insert the code from the gray box bellow. This code will change the transformation to display only the name of a TV and its screen type. Click **Save** at the top.

```
Product name:
Product name:
Product name:
```

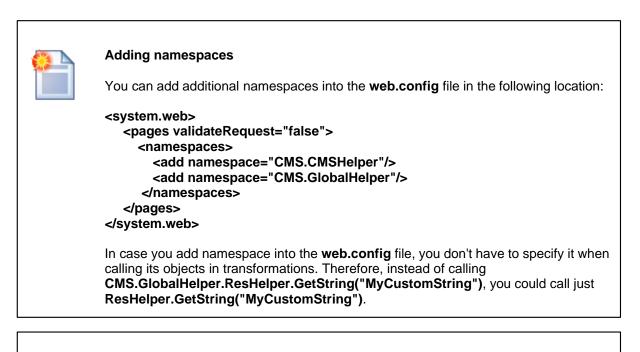
📚 Document Type Properties



That's how you change default transformation for your product so that the product name and screen type are displayed.

Home	News	Products	How to buy	Company	
Products > P	lasma TVs	> LG plasma T	V 42PC51		
Product nam Screen type:	-	ma TV 42PC51	I		

Please note: You can modify the design of the **product list** web part by changing the **CMS.Root. EcommerceProductsList** transformation in the manner similar to the given example.





Print page

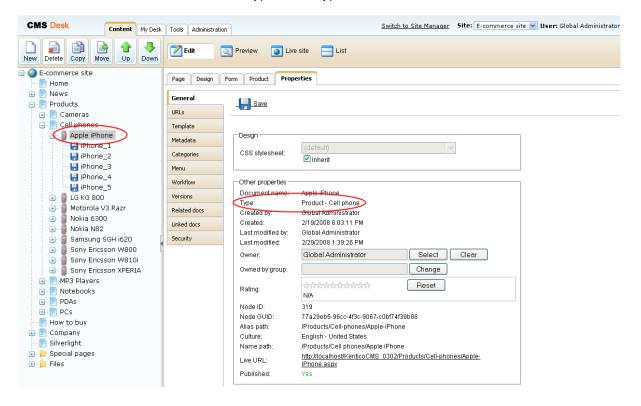
Kentico CMS allows you to add a link button to your web page that will create print version of the given document. Please refer to the **Print page** chapter in **Kentico CMS Developer's Guide** for more information.

3.3 Adding images to product gallery

Now you will learn how to add an image to product gallery.

Before you proceed, you need to check if images can be placed under the document type of the document where you want the images to be placed.

1. Go to **CMS Desk**'s **Edit** mode, select the document and switch to the **Properties -> General** tab. You can see the document's document type in the Type field.

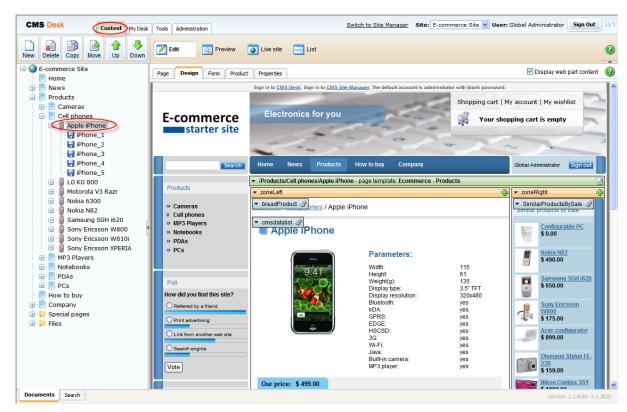


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2. Go to Site Manager -> Development -> Document types. Choose to Edit (\sim) the document type from the previous step. Switch to the **Child types** tab and choose the desirable document types that you want to place under the documents of this type. For images, select **CMS.File** and click **OK**.

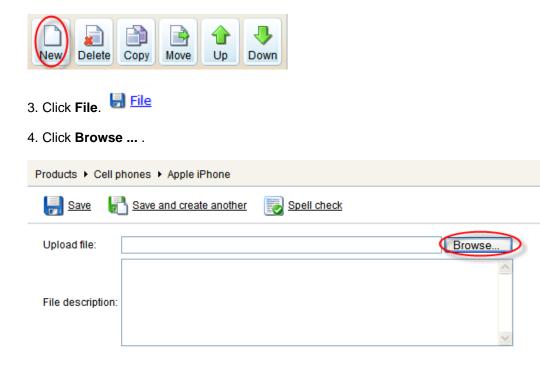
CMS Site Manager Sites	Administration Settings Development Lice	nses Support	Switch to CMS Des
Development 🍄 Categories	📚 Document Type Properties		
	Document Types Product - Cell phone		
- 🍈 Cultures	General Fields Form Transformations Quer	Child types Ites E-commerce Alternative forms Documents	
	Select document types that can be placed un	ler documents of this type:	
Form controls	Select Display name Code	name	
🔄 Inline controls	Article CMS.	vrticle	
- 🛃 Modules	Blog CMS.	llog	
🔚 Notifications	Blog month CMS.	BlogMonth	
Page layouts		JogPost	
- 🥞 Page templates 		CellPhone	
System tables			
Tag groups	Community - Transformations Comr	iunity.Transformations	
👩 Time zones	E-commerce - Transformations Ecom	merce.Transformations	
📲 UI cultures	Event CMS.	Event	
🔲 Web part containers	Event (booking system) CMS.	3ookingEvent	
web parts Web templates	FAQ CMS.	aq	
Workflows	CMS.	ïle	
	Folder CMS.	older	
	Image gallery CMS.	mageGallery	
	Job opening CMS.	ob	
	Knowledge base article CMS.	<barticle< td=""><td></td></barticle<>	

Now when images can be placed under our document type, we can add them the following way:



1. Go to CMS Desk -> Content -> Products -> Cell phones -> Apple iPhone.

2. Click **New** at the document action toolbar.



5. Find an image you want to upload and click **Open**.

Choose file				? 🔀
Look jn:	📋 My Document	8	- 🗈 💣 🗉	
My Recent Documents Desktop	Context help - commerce gu - EcommerceGuic - FinePrint files - ICQ - My Google Gad - My HelpAndMar	le gets	 SnagIt Catalog SQL Server Management Studio SQL Server 2005 Visual Studio 2005 zaloha apple-iphone-03-b articles 	s test
My Documents	My Music My Pictures My Projects My Shapes		∑csharp_03 ♀ EcommerceGuide_manual	
My Computer	My Skype Conto My Skype Pictur PDF files		 options options2 order Printer friendly CSS styles 	
(<			>
My Network Places	File <u>n</u> ame: Files of type:	apple-iphone-03 All Files (*.*)	3-b 💌	<u>O</u> pen Cancel

6. Now click Save.

Products Cell phones Apple iPhone							
Save 6	Save and create another Spell check						
Upload file:	C:\Documents and Settings\zdenekh\My Documents\apple-iphol Browse						
File description:							

Congratulations, your image has been added to the product gallery.

Removing images from product gallery

The document action toolbar, mentioned in the step 2, can be used not only for adding new images to product gallery but for removing them as well. In the content tree, choose image you want to remove and click **Delete** in the document action toolbar. Your image will be removed from the product gallery.

Apple iPhone



Parameters:

Width:	115
Height:	61
Weight(g):	135
Display type:	3.5" TFT
Display resolution:	320x480
Bluetooth:	yes
IrDA:	yes
GPRS:	yes
EDGE:	yes
HSCSD:	yes
3G:	yes
Wi-Fi:	yes
Java:	yes
Built-in camera:	yes
MP3 player:	yes

Our price: \$ 499.00

Cell phones accessories		
Car charger (+ \$ 5.00)	🖵 Headset (+ \$ 70.00)	Leather case (+ \$ 10.00)
Add to wishlist		1 🕺 Add to cart

Description

iPhone is a revolutionary new mobile phone that allows you to make a call by simply tapping a name or number in your address book, a favorites list, or a call log. It also automatically syncs all your contacts from a Windows PC, Mac, or Internet service. And it lets you select and listen to voicemail messages in whatever order you want — just like email.

Product gallery

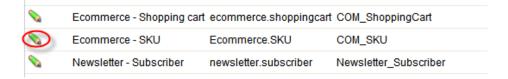


3.4 Adding product custom fields

1. Go to CMS Site Manager -> Development -> System tables.

Countries Cultures Cultures Cultures Controls Form controls Guidules Page templates Page templates Page templates Cystem tables Cultures	System tables Actions Class display name Ecommerce - Customer Ecommerce - Order Item Ecommerce - Order Item Ecommerce - Shopping carf Ecommerce - SkU Newsletter - Subscriber User	Class name ecommerce.customer ecommerce.order ecommerce.shoppingcar Ecommerce.SKU newsletter.subscriber cms.user	Table name COM_Customer COM_Order COM_OrderItem COM_ShoppingCart COM_SKU Newsletter_Subscriber CMS_User	
Cultures Victures Web part containers Web templates Web parts Cultures Cultures Web parts Web parts Cultures Culture	Ecommerce - Customer Ecommerce - Order Ecommerce - Order Item Ecommerce - Order Item Ecommerce - Shopping cart Ecommerce - SKU Newsletter - Subscriber	ecommerce.customer ecommerce.order ecommerce.orderitem ecommerce.shoppingcar Ecommerce.SKU newsletter.subscriber	COM_Customer COM_Order COM_OrderIterm COM_ShoppingCart COM_SKU Newsletter_Subscriber	
Counternet types Counternet types Counternet templates Form controls Form controls Modules Page layouts Page templates Relationship names System tables UI cultures Web part containers Web parts Web templates	Ecommerce - Customer Ecommerce - Order Ecommerce - Order Item Ecommerce - Order Item Ecommerce - Shopping cart Ecommerce - SKU Newsletter - Subscriber	ecommerce.order ecommerce.orderitem t ecommerce.shoppingcar Ecommerce.SKU newsletter.subscriber	COM_Customer COM_Order COM_OrderIterm COM_ShoppingCart COM_SKU Newsletter_Subscriber	
Form controls Form c	Ecommerce - Order item Ecommerce - Shopping cart Ecommerce - SKU Newsletter - Subscriber	ecommerce.orderitem t ecommerce.shoppingcar Ecommerce.SKU newsletter.subscriber	COM_Orderitem COM_ShoppingCart COM_SKU Newsletter_Subscriber	
Inline controls Modules Page layouts Page templates System tables Web part containers Web parts Web parts Web mentales	Ecommerce - Order item Ecommerce - Shopping cart Ecommerce - SKU Newsletter - Subscriber	ecommerce.orderitem t ecommerce.shoppingcar Ecommerce.SKU newsletter.subscriber	COM_Orderitem COM_ShoppingCart COM_SKU Newsletter_Subscriber	
Modules Page layouts Page templates System tables Web part containers Web parts Web parts	Ecommerce - Shopping cart Ecommerce - SKU Newsletter - Subscriber	t ecommerce.shoppingcar Ecommerce.SKU newsletter.subscriber	COM_ShoppingCart COM_SKU Newsletter_Subscriber	
A Page layous Page layous Page layous Relationship names System tables Web part containers Web parts Web parts Web templates	Ecommerce - SKU Newsletter - Subscriber	Ecommerce.SKU newsletter.subscriber	COM_SKU Newsletter_Subscriber	
Relationship names System tables Vi cultures Web part containers Web parts Web templates	Newsletter - Subscriber	newsletter.subscriber	Newsletter_Subscriber	
UI cultures				
Web part containers Web parts Web templates	User User	cms.user	CMS_User	
Web parts				
• Web templates				
workflows				

2. Click Edit next to the Ecommerce - SKU.



3. Click New Attribute.

4. Into the Attribute name text box, enter *SKUColor*. Choose **Text** as **Attribute type**, enter *100* as **Attribute size** and *Product color* as **Field Caption**. Choose **Text box** as **Field Type**. Click **Ok**.

	Database		^
	Attribute name:	SKUColor	
Т	Attribute type:	Text	
	Attribute size:	100	Ξ
	Allow empty value:	\checkmark	
*	Attribute default value:		
-	Display attribute in the edi	ting form	
₽	Field		
×	Field caption:	Product color	
~	Field type:	Text Box	
			~
		ОК]

5. Now switch to CMS Desk and go to Tools -> E- commerce -> Products. Click Edit next to Acer Aspire 3105WLMi.

Actions	Product name
	Acer Aspire 3105WLMi
💊 🗶	Acer configurator
💊 🗶	Acer configurator

6. Switch to the Custom fields tab and enter Blue into the Product color text box. Then click Ok.

Product properties
Products Acer Aspire 3105WLMi
General Custom fields Tax classes Volume discounts Options
Product color, Blue

That's how you create a custom field for all products and how you set its value for specific product.

Product custom fields in transformations

For displaying values of the given custom field in transformation, enter *Eval*("*<custom field name>*"). For instance, for the example given in this chapter, you would enter *Eval*("*SKUColor*") (please see the Customizing product design chapter for more details).

In versions prior to 4.0, you had to update the following database views manually with the name of the new custom field in order for the *Eval("<custom field name>")* to work correctly. Now it is done **automatically** so that you **don't need to modify the database** at all.

1. View_COM_SKU 2. View_CMS_Tree_Joined

3. View_CMS_Tree_Joined_Versions

Product custom fields in code

In code, you can get and set the given value in the following way:

```
using System;
using CMS.Ecommerce;
// How to set value of the custom field
SKUInfo product = new SKUInfo();
product.SetValue("SKUColor", "green");
// How to get value of the custom field
string color = Convert.ToString(product.GetValue("SKUColor"));
```



4 Customizing web site design

4.1 Changing the header and menu (master page)

Changing a logo in the header

1. Go to CMS Desk -> Content -> Ecommerce site.

CMS Desk	Content	My Desk	Tools Administration		Switch to Site Man	nager Site: E-comm	erce Site 💙 User: Global Administrato	or Sign Out v3.1
New Delete Copy	Move Up	Down	Edit Oreview	💽 Live site 📃 List				0
E-commerce Site	>		Page Design Form Product	t Master page Properties				2
Home News F Products			Save 🔯 Spell check					
	1			8 8			∉∉∣⋿≡≡≡∣‱‰≎	
			Style Format	Font	Size Size to <u>CMS Site Manager</u> . The default	•] T_= • 🏤 •] 💷 🖻		
			Select 🕌 Clear		Source and and a second		Shopping cart My account My	wishlist
			E-commerce	Electronics fo	r you		Your shopping cart is e	mpty
			2191161 2116				1~~~	
		•	Search	Home News P	roducts How to buy	Company	Global Administrator	Sign out
			Products					
			 » Cameras » Cell phones » MP3 Players » Notebooks » PDAs » PCs 					
			Poll How did you find this site? Referred by a friend					
Documents Search							Versio	on: 3.1 Build: 3.1.3040

2. Click **Select ...** above the logo.

	Sign in to CMS Desk. Sign in to CMS Site Manager. The	e default account is administrator w	rith blank password.
Select X Clear		-	Shopping cart My account My wishlist
E-commerce	Electronics for you		G Your shopping cart is empty
starter site			
			~ ~
Search	Home News Products How to b	uy Company	Global Administrator Sign out

3. In the web page dialog, select Files in the content tree and click the Upload file button at the topright.

🖉 CMSDesk - Select file Webpage Dialo	g			X
📕 Select file				
Site: ECommerceSite 🗸				Upload file
Ecommerce site				
	File name	File size (bytes)		
Products How to buy	map.jpg	42811		Paste image
🗐 Company 🕕 🍃 Special pages	ecommerce_site_logo02.gif	5056	E-commerce	Paste image
Files	homepage.jpg	36118		Paste image
http://localhost:1469/KenticoCMS-ecommerce/CMSD	esk/Content/SelectImageDialog/default.asp	x?returnvalue=url&selector	Id 🧐 Local intr-	anet;

4. In the new dialog, click **Browse**.

🖉 Content - Edit	Webpage Dialog	×
📙 <u>Save</u> 🔓	Save and create another 🛛 🔀 Spell check	
Upload file:	Browse.	
File description:		
	×.	
http://localhost:1469/i	KenticoCMS-ecommerce/CMSDesk/Content/EditFrameset.aspx 🥞Local intranet	

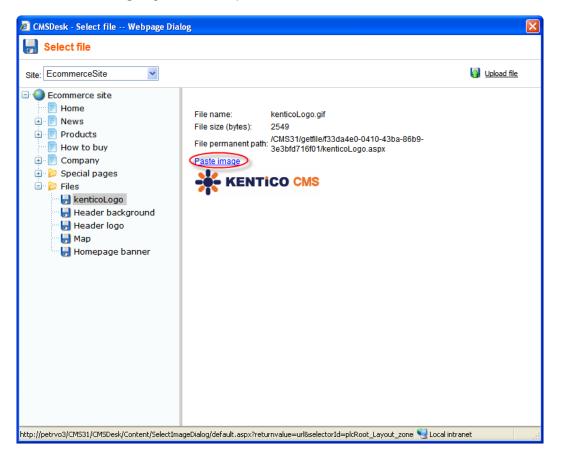
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- **?**× Choose file 🗢 🗈 💣 🎫+ Look in: 🛅 Images • Commerce 🔁 🔊 kenticoLogo 횐 topMenuItem à topMenuItem 🚞 Examples 횐 leftmenuBg My Recent 🛐 no_image 🚞 ShoppingCart Documents 🛐 BlackBoxTitle 횐 OrangeBoxTitle 횐 treeMenuIten 🛐 unchecked 횐 btnSearch 횐 poll01 B 🛐 buttonBackground 💽 calendar 횐 poll02 Desktop 횐 poll03 🛐 delete itabmenu_item_active_bg 횐 edit 🛐 tabmenu_item_bg S footerBackground 🛐 tabmenu_item_left My Documents 🛐 tabmenu_item_right si forumBackground1 🛐 tabmenu_item_selected_left J 횐 genBackground 😒 tabmenu_item_selected_right checked topMenuBackground My Computer 🛐 topMenuItemDivider < > My Network kenticoLogo • Open File name: Places All Files (*.*) Cancel Files of type: •
- 5. Find the image you want to upload and click **Open**.

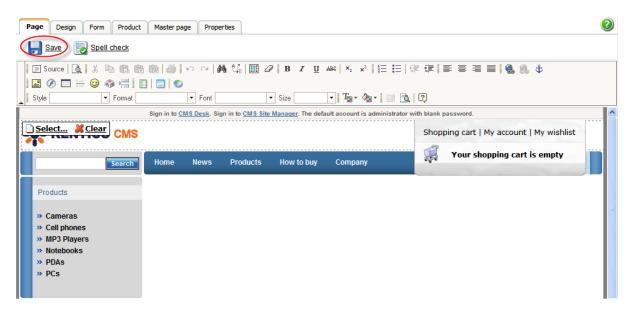
6. Click Save. Your new logo image is now ready to be posted on your web site.

🖉 Content - Edit	Webpage Dialog	×
Save 6	Save and create another 🛛 🔂 Spell check	
Upload file:	C:\Inetpub\www.root\KenticoCMS\App_Themes\CorporateSite\Im	
File description:		
http://localhost:4465/k	<pre>KenticoCM54/CM5Desk/Content/EditFrameset.aspx?action=nk Signal intranet</pre>	

7. Click Paste image right above the picture.



8. Now click Save.

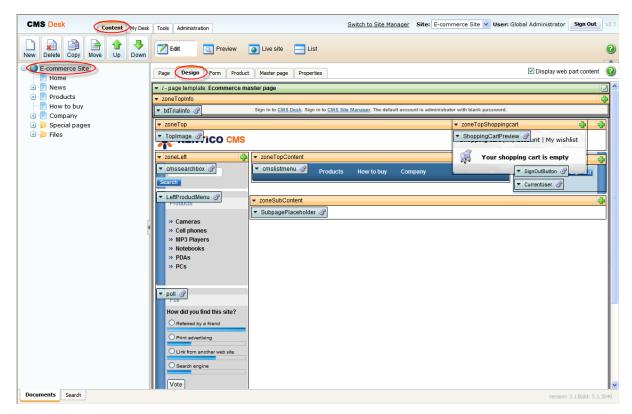


You've just publish a new logo on your web site.

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Removing the log-on bar

1. Go to CMS Desk -> Content -> Ecommerce site and switch to the Design tab.



2. Right-clicked the txtTrialInfo webpart at the top-left and choose Remove.

▼ / - page template: Ecommerce m	aster page	
 zoneTopInfo 		ф
etxtTrialInfo	Sign in to <u>CMS Desk</u> . Sign in to <u>CMS Site Manager</u> . The default account is administration	ator with blank password.
Configure		🝷 zoneTopShoppingcart 🔂 🚭
		ShoppingCartPreview Junt My wishlist
Move to zone	▼ zoneTopContent	Your shopping cart is empty
Remove	cmslistmenu Products How to buy Company	▼ SignOutButton ?
Search		CurrentUser
LeftProductMenu Products	▼ zoneSubContent	
	 SubpagePlaceholder @ 	

3. Click Ok to remove the bar from your website.

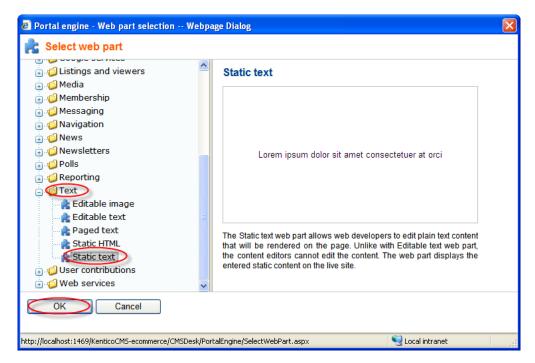
Window	s Internet Explorer 🛛 🔀
2	Are you sure you want to remove the selected web part?
	OK Cancel

That's how you remove the signing-in bar from your web site.

Changing content of the menu

- 1. Go to CMS Desk -> Content -> Ecommerce site and switch to the Design tab.
- 2. Click the Add web part button from the drop-down menu in zoneTopContent.

cmssearchbox Add web part Products How to buy Company	
Home Page Usign Form Product Master page Properties News Products How to buy Products How to buy Products Files VoreTop VoreTop<	
 Products Products ZoneTopInfo ZoneTopInfo ZoneTopIngo ZoneTopIngo ZoneTopIngo ZoneTopIngo ZoneTopContent ZoneLeft ZoneLeft ZoneTopContent ZoneSubContent SubpagePlaceholder @ SubpagePlaceholder @ 	Display web part content
 How to buy ZoneTop ZoneTopShoppingcatt ShoppingCattPreview ShoppingCattPreview ShoppingCattPreview ZoneTopContent Your shopping ZoneTopContent Your shopping ZoneTopContent ZoneTopContent SubpagePiaceholder Products SubpagePiaceholder Piaceholder PCs 	
Company Co	
Files Files ZoneLeft ZoneTopContent Products How to buy Company Zoneras Celt phones Celt phones NB3 Players Notebooks PCs	¢ 4
 zoneLeft zoneTopContent Add web aat Products How to buy Company Zearch LeftProductMenu ? Cameras Cell phones MP3 Players Notebooks PDAs PCs 	unt My wishlist
	g cart is empty
 LeftProductMenu ? Cameras Cell phones MP3 Players Notebooks PDAs PCs 	SignOutButton
Cameras Cell phones MP3 Players Notebooks PDAs PCs	CurrentUser 3
» Cameras » Cell phones » MP3 Players » Notebooks » PDAs » PCs	4
 Cell phones MD9 Players Notebooks PDAs PCs 	
WIP3 Players > Notebooks > PDAs > PCs	
» PDAs » PCs	
» PCs	
How did you find this site?	
O Referred by a friend	
O Print advertising	
C Link from another web site	
Search engine	
Vote	
Vue	
bocuments Search	

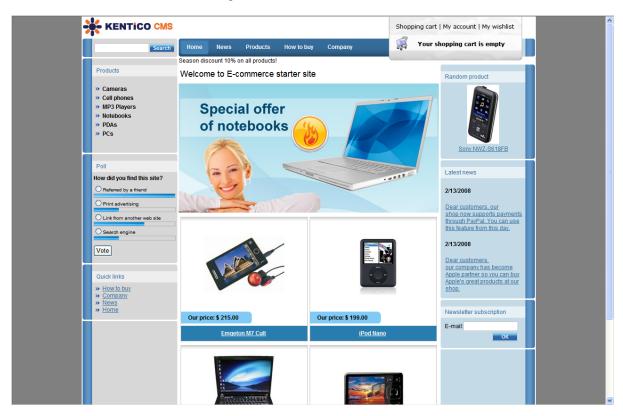


3. In the web page dialog, choose **Text -> Static text** and click **Ok**.

4. Enter Season discount 10% on all products! as Text and click Ok.

CMS Desk - Web Part propert	ties Webpage Dialog	
谢 Web part properties (Static text)	Documentation
Properties Layout		
Default		^
ID:	statictext	
Visible:		
Hide on sub-pages:		
Show for document types:	Select	
Display to roles:	Select	
Content		
Text:	Season discount 10% on all	
HTML Envelope		
HTML Envelope Web part container:	(none)	
	(none)	

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5. Now switch to the **Live site** viewing mode. You can see the new text bellow the main menu.



More information

Should you need more information about customizing your web site design, please refer to **Kentico CMS Developer's Guide**.

4.2 Changing colors using CSS styles

1. Go to CMS Site Manager -> Development -> CSS stylesheets.

CMS Site Manager Sites	Administration Settings Development Licenses Support Buy	Switch to CMS Desk User: Global Administrator Sign Out V3
Development CSS stylesheet CSS stylesheet CSS stylesheet	▲ CSS stylesheets	9
Cultures	💰 New CSS stylesheet	
E-mail templates	Actions Display name Code name	
	Image: Second and Sec	
Page layouts 2 Page templates 2 Relationship names		
System tables		
Web part containers Web parts O Web templates		
Workflows		
٩		

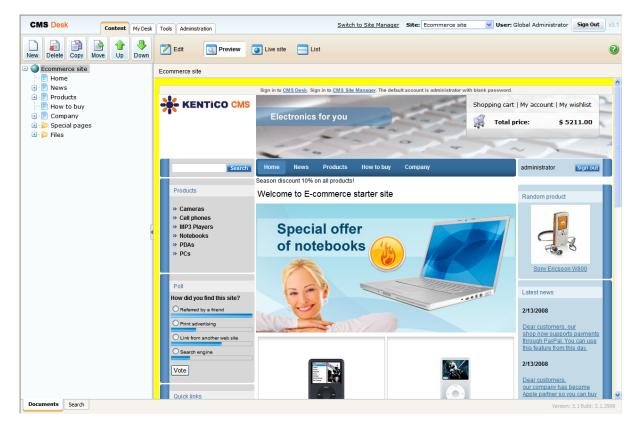
2. Click the Edit button next to the Ecommerce site.

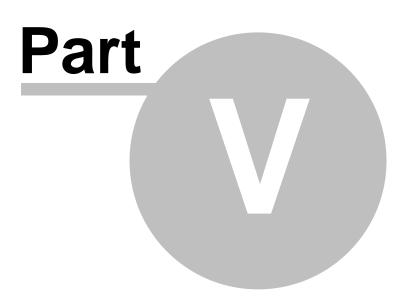


3. In the **Stylesheet text** text box change background color of **body.LTR**, **body.RTL** from gray to yellow. Click **Save** at the top.

Save 6 Check out to file						
Check out the stylesheet	to file C:\Inetpub\wwwroot\KenticoCMS-ecommerce\CMSCSSStylesheets\EcommerceSite.css to edit the sty	leshe	et externally.			
Stylesheet display name: Stylesheet code name:	Ecommerce site EcommerceSite					
Stylesheet text:	<pre>/*#Main styles#*/ body { font-family: Arial; font-size: 12px; } body.LTR, body.RTL { background: vellow; } a, (color: #356B99; } a:hover { text-decoration: none; } h1 { </pre>		Boxes Blue box left Blue box right Company Main styles Menus Left menu Top menu News Newsletter subscription Other styles Polls Products Random product right column Random product right column Random product with status Search Search box Shopping cart item selector Shopping cart preview Shopping cart preview Shopping cart preview Shopping cart selector Shopping car			

4. Go to **CMS Desk** and switch to the **Preview** mode. You can see that the background of the E-commerce web site is yellow.





5 Integration with your existing Kentico CMS web site

5.1 Overview

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The e-commerce module provides several web parts that allow you to integrate it into your web site:

- **Shopping cart** displays the shopping cart content and ensures the check-out process. For more info please see the Shopping cart chapter.
- **Shopping cart preview** displays the links to the shopping cart, to my account and to my wishlist and the total value of the shopping cart content. For more info please see the Shopping cart preview chapter.
- **My account** displays the details of the current user, such as personal settings, addresses, orders, invoices and allows user to change the password. For more info please see the My account chapter.
- Wishlist displays the wishlist of the currently logged-on user. For more info please see the Wishlist chapter.
- **Similar products by sale** displays products which were purchased together with the current product by previous customers. For more info please see the Similar products by sale chapter.
- **Random products** displays random N products that correspond to the criteria specify in the content filter. For more info please see the Random products chapter.
- **Product datalist** display products based on their e-commerce product (SKU) properties instead of displaying the standard CMS documents.
- **Top N products by sales** -displays N best-selling products. For more info please see the Top N products by sales chapter.

These web parts can be used also as independent user controls placed on the ASPX pages.

How to organize the pages

A typical content tree structure of an e-commerce-enabled web site looks like this:

- Home (page)
- Products (page)

- **Category 1** (page; contains Repeater or DataList web parts displaying products with links to shopping cart)

- Product 1 (product specification document; it's marked as a product)

- Product 2 (product specification document; it's marked as a product)

- Category 2 (page; contains Repeater or DataList web parts displaying products with links to shopping cart)

- **Sub category 1** (page; contains Repeater or DataList web parts displaying products with links to shopping cart)

- Product 3 (product specification document; it's marked as a product)
- Product 4 (product specification document; it's marked as a product)
- News (page)
- Special pages

- **Shopping Cart** (page; it contains the Shopping cart web part and can be configured to be hidden in the navigation and site map)

- **My Account** (page; it contains the My account web part and can be configured to be hidden in the navigation and site map)

5.2 Web parts

5.2.1 My account

The **My account** web part displays the details of the current user, such as personal settings, addresses, orders, invoices and allows user to change the password.

	Sign in to <u>CMS Desk</u> . Sign in t	o CMS Site Manager. The default account is administrator v	vith blank password.
E-commerce starter site	Electronics for	ryou	Shopping cart (My accound) My wishlist
Search	Home News Pr	oducts How to buy Company	administrator Sign out
Products	My Account		
» Cameras » Cell phones	My details Addresses	Orders Credit Change password My subsc	riptions Personal settings
 MP3 Players Notebooks 	First name:	administrator	
» PDAs » PCs		administrator	
// PCS	Company account: E-mail:	admin@yourdomain.com	
Poll	Phone:		
How did you find this site?	Fax		
O Referred by a friend	Preferred currency: Preferred payment method:	U.S. Dollar	
O Print advertising	Preferred shipping option:	(none)	
Link from another web site Search engine	Country/state:	(none)	
Vote		OK	
Quick links			
How to buy Company News Home			
			My account web part
		Powered by	

You can modify the functionality of **My account** by setting following properties in the **Web Part properties** dialog:

CMS Desk Content My Desk	Tools Administration		Switch to Site Manager Site: E-commerce Site 🗸	User: Global Administrator Sign Out v3.1
New Delete Copy Move Up Down	Edit Preview	💽 Live site 📃 List		0
E-commerce Site	Page Design Form Pro	duct Properties		🗹 Display web part content 🛛 😢
Home	Searc	h Products Company ne	ews nome now to buy	Signour
+ Products		 /Special pages/My Account - pages/My A	age template: Ecommerce - My account	
How to buy Company	Products	✓ zoneContent		€
😑 눧 Special pages	» PDAs	▼ editabletextHeader ③		
My Account Jogon page F Print	 » Notebooks » Cameras » MP3 Players 	- MyAccount mge persevord	My subscriptions Personal settings	
E Search	 » PCs » Cell phones 	CMS Desk - Web Part properties	s Webpage Dialog	
Unsubscribe Wishlist Shopping Cart		尉 Web part properties (My	y Account)	(1) Documentation
Shopping Cart Shoppin	Poll	Properties Layout		
 	How did you find this site?	Default		
	O Print advertising	Web part control ID:	MyAccount	
	Link from another web site	Visible:		
	O Search engine	Hide on subpages:		E
	Vote	Show for document types:	Select	
	Quick links	Display to roles:	Select	
	» How to buy » Company			
	» <u>News</u> » Home	Display properties		
		Display my details:	V	
		Display my addresses:		
Documents Search		Display my orders:	V	

Display properties

Display my details	Indicates if My Details should be displayed to the user.
Display my addresses	Indicates if My Addresses should be displayed to the user.
Display my orders	Indicates if My Orders should be displayed to the user.
Display my credit	Indicates if My credit should be displayed to the user.
Display change password	Indicates if dialog for password reset should be displayed to the user.
Display my subscriptions	Indicates if My Subscriptions should be displayed to the user.
Display my messages	Indicates if My Messages should be displayed to the user.
Display my personal settings	Indicates if Personal settings should be displayed to the user.

Settings properties

Show order tracking number	Indicates if order tracking number should be visible in the order list.
Allow empty password	Indicates if empty password is allowed when changing the user password.
Tabs css class	CSS class used for the tabs.

5.2.2 Random products

The **Random products** web part displays products that correspond to the criteria specified in the content filter.

You can modify the functionality of **Random products** by setting properties in the **Web Part properties** dialog as you can see on the following image:

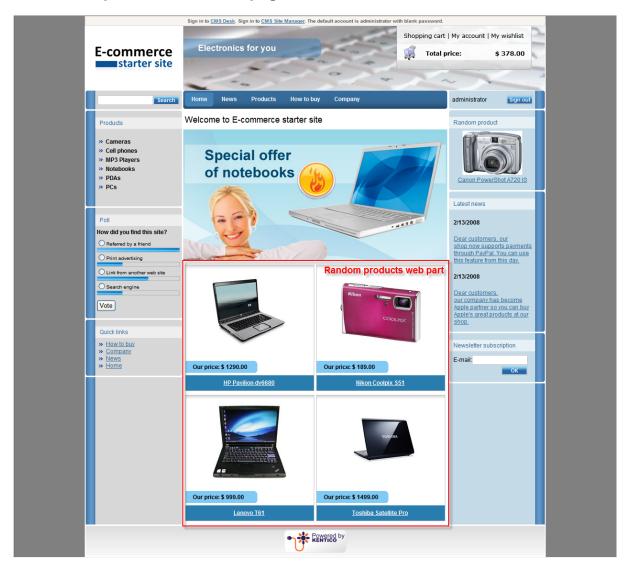
CMS Desk	Content	My Desk	Tools Administration		Switch to Site Manager	Site: E-commerce Site 🔽	User: Global Administrator	Sign Ou	ut v3.1	1
		₽	📝 Edit	CMS Desk - Web Part properties	Webpage Dialog			×	0)
New Delete Copy Mov	/e Up	Down		🛛 📸 Web part properties (Ra	ndom products)		Docur	nentation		
E-commerce Site			Page Design F	Properties Layout					t 🕜)
Products								^	^	•
B Products				Default					2	
 E Company Special pages 			E-comm		FeaturedProducts					
Special pages Files			starte	Visible:	V					
				Hide on sub-pages:						
				Show for document types:		Select				
			Products	Display to roles:		Select				
			» Cameras							
			 Cell phones MP3 Players 	Content filter						
			» Notebooks » PDAs	Product public status:	Show as featured product	~				
			» PCs	Product internal status:	(all)	~				
				Product department:	(all)	~				
			Poll	Only random N products:	4					
			How did you find to Referred by a frie	1						
			O Print advertising	Site name:		Select		~		
			C Link from another	Refresh content		ОК	Cancel Apply			
			Search engine	http://localhost/KenticoCM59/CM5Desk/Porta	alEngine/WebPartProperties.aspx?aliaspat	th=%2fHome&zoneid=zoneContent	shop now supports	.; payment	# 8	
				zoneContent FeaturedProducts			through PayPal. You this feature from this	<u>i can use</u>		
			Vote	· realised roduct			2/13/2008			1
Documents Search							Version:	3.1 Build: (3.1.3057	

Content filter main properties

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Product public status	Public status of products which should be displayed.
Product internal Internal status of products which should be displayed. status Internal status of products which should be displayed.	
Product department Department of products which should be displayed.	
Only random N products	Indicates how many random products should be displayed. Don't put any value, if you want display all products.
Top NThe first N products selected according to the chosen criteria.	
Path Path of the documents to be displayed.	
Document Types	Indicates from which document types should be products chosen.
WHERE Condition	WHERE part of the SELECT query.
ORDER BY ORDER BY part of the SELECT query.	

The **Random products** web part can be used in many different ways. All you have to do is to set the content filter accordingly to get rights products displayed.



1. Featured products on Home page

On the **Home** page, **Random products** is set to display the maximum of 4 random products that have the public status set to **Show as featured product:**

Only random N products: 4

The maximum of 4 random products is displayed.

Product public status: Show as featured product Only products with the public status set to **Show as featured product** are displayed.

Transformation name: ecommerce.transformations.EcommerceSite_FeaturedProducts The ecommerce.transformations.EcommerceSite_FeaturedProducts transformation used in the list view mode.

For description of how to display the given product as the featured product, please refer to the Displaying featured products chapter.



2. Similar products at the product detail

At the product detail, the given web part is set to display the maximum of 4 random products which have price similar to the currently chosen product and which are of the same type.

Show for document types:

CMSProduct.Camera;CMSProduct.CellPhone;CMSProduct.Computer;CMSProduct.Laptop;CMSProduct.MediaPl ayer;CMSProduct.PDA

Random product is displayed only in the given document types, therefore, at product detail. If a user switch to the product list, the given web part is hidden. If you add a new product type and you want it to be displayed with the **Random product** web part, you need to add your new product type into the **Show for document types** text box.

Only random N products: 4

The web part displays 4 random products at most, according to the filter conditions.

WHERE condition: (SKUPrice > {%SKUPrice%} * 0.6) AND (SKUPrice < {%SKUPrice%} * 1.4) AND (NodeSKUID <> {%NodeSKUID%}) Ensures that only products with the price similar to the currently chosen product are displayed.

Document types: {%ClassName%}

Ensures that only the products of the same type as the currently chosen product are displayed. For more details about the context macros please refer to the **Appendix A - Macro expressions** chapter in **Kentico CMS Developer's Guide**.

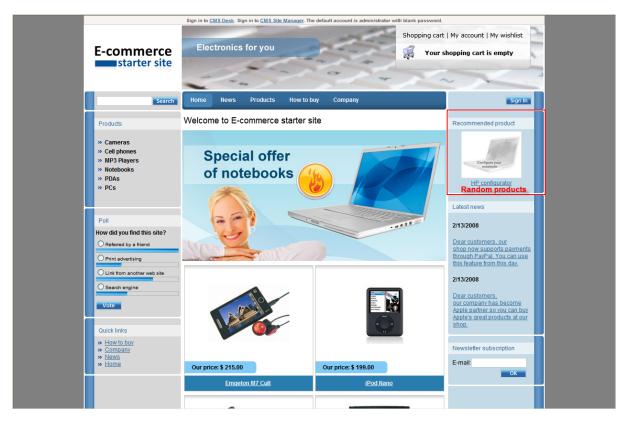
Transformation name: Ecommerce.Transformations.EcommerceSite_RandomProducts The Ecommerce.Transformations.EcommerceSite_RandomProducts transformation used in the list view mode. For instance, if the currently chosen product is type of **cmsproduct.cellphone** with **SKUPrice** set to 100, the **Random product** web part displays the maximum of 4 products, type of **cmsproduct.cellphone** with **SKUPrice** between 60 and 140.

3. Recommended products on News page and Home page

On the **News** page, the given web part is set to display 4 random products, regardless of their type.

		Sign in to CMS Desk. Sign in to CMS Site Manager. The default account is administrator with blank password.	
	E-commerce starter site	Electronics for you	: My account My wishlist shopping cart is empty
	Search	Home News Products How to buy Company	Sign In
	Products	News PayPal payment support	Recommended products
	 Cameras Cell phones MP3 Players Notebooks PDAs 	ParPar bayment support Dear customers, our shop now supports payments through PayPal. You can use this feature from this day.	\$ 899.00 Asus A639 \$ 470.00
-	» PCs Poll	Apple products Dear customers, our company has become Apple partner so you can buy Apple's great products at our shop.	Pentax K10D \$ 804.00 \$ 550.00
	How did you find this site? Referred by a friend Print advertising	Our new e-shop launched Dear customers, we are pleased to announce we launched this new eshop. We hope you will like it and you will be visiting us regularly.	Random products
	C Link from another web site Search engine Vote		2/13/2008 Dear customers, our shop now supports parments throuch PayPal. You can use
	Quick links » <u>How to buy</u> » <u>Company</u> » <u>News</u> » <u>Home</u>		this feature from this day. 2/13/2008 Dear customers, our company has become Apple partner so you can buy Apple's great products at our shop.
			Newsletter subscription

In this case, the **Only random N products** property is set to **4** and the **Transformation name** property is set to**ecommerce.transformations.Ecommerce_RandomProducts**.



On the **Home** page, the given web part is set to display 1 random product, regardless of its type.

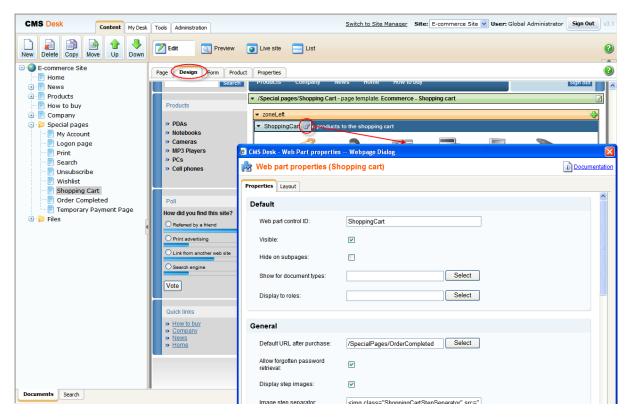
In this case, the **Only random N products** property is set to **1**. The **Transformation name** property is set to**ecommerce.transformations.Ecommerce_RandomProduct**.

5.2.3 Shopping cart

The Shopping cart web part displays the shopping cart content and ensures the check-out process.

	Sign in to CMS Desk. Sign in to CMS Site Manager. The default acco	unt is administrator with blank password.	
E-commerce starter site	Electronics for you	Shopping card	My account My wishlist rice: \$1068.00
Search	Home News Products How to buy Con	ipany	Sign In
Products	Step 1 of 6 - Add some products to the shopping cart		
 Cameras Cell phones MP3 Players Notebooks PDAs 	iii 🔹 🔹 🔹 Shopping cart	• 📑 • 📑	• 🔊
» PDAS » PCs			Currency: U.S. Dollar 💌
	Remove Product name	Units Unit price	Tax Subtotal
Poll	Apple iPhone	1 499.00	0.00 🔍 499.00
How did you find this site?	- Leather case	1 10.00	0.00 🔍 10.00
Referred by a friend	- Green	1 20.00	0.00 🔍 20.00
O Print advertising	Nokia N82	1 490.00	49.00 🔍 539.00
O Link from another web site	- Silver	1 0.00	0.00 🔍 0.00
O Search engine	If y	ou have a coupon code, please enter it h	iere:
Vote			Total shipping: \$ 0.00 Total price: \$ 1068.00
Quick links			Update
» How to buy » <u>Company</u> » <u>News</u> » Home			
	Continue shopping Sho	pping cart	Check out
	Powered by		

You can modify the functionality of **Shopping cart** by setting following properties in the **Web Part properties** dialog:



General properties

Default URL after purchase	Default page where the user should be redirected if no URL is specified for the given payment option.
Allow forgotten password retrieval	Indicates if the forgotten password can be retrieved in the Shopping Cart sign-in dialog.
Display step images	Indicates if the images should be displayed during the order process
Image step separator	The separator displayed between shopping progress images.
Enable product price detail	Indicates if the link to the price detail page should be displayed.
Required fields mark	HTML code for the required fileds mark, e.g. asterisk (*)

Registration form properties

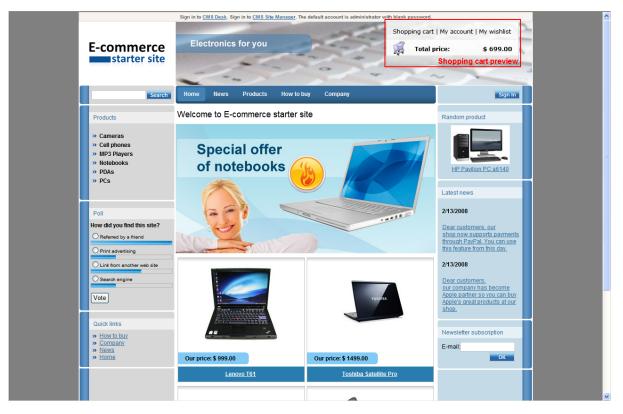
Assign user to role	If you enter some role to this field, the user will be automatically assigned to it after registration.
Notify administrator about new registrations to e-mail address	Enter administrator's e-mail address if you want to send registration notification message.

Conversion tracking properties

Registration conversion name	Name of the registration conversion used in web analytics.	
Order conversion name	Name of the order conversion used in web analytics.	

5.2.4 Shopping cart preview

The **Shopping cart preview** web part displays the links to the shopping cart, to my account and to my wishlist and the total value of the shopping cart content.



You can modify the functionality of **Shopping cart preview** by setting following properties in the **Web Part properties** dialog:

CMS Desk Content	My Desk	Tools Administration	Switch to Site Manager Si	Site: E-commerce Site 🔽 User: Global Administrator Sign Out	v3.1
New Delete Copy Move Up	Down	Edit Preview Site Live site	t		2
E-commerce Site		Page Design Form Product Master page Propert	ies	Display web part content	2
Inome Inome Inome Inome Inome Inome	-	/- page template: Ecommerce master page		2	1^
🗈 📄 Products		▼ zoneTopInfo		4	
How to buy		txtTrialInfo Sign in to <u>CMS Desk</u> . Sign	in to <u>CMS Site Manager</u> . The default account is	t is administrator with blank password.	
🗉 🝃 Specia 🙋 CMS Desk - Wel	o Part prope	erties Webpage Dialog		zoneTopShoppingcart 💠 💠	
🗉 🍃 Files 🛃 Web part p	properties	(Shopping cart preview)	Docum	Imentation ShoppingCartPreview Cont My wishlist	
Properties	Jt			Total price: \$ 499.00	L
Default					_
Web part cor	trol ID:	ShoppingCartPreview		zoneTopRight	
Visible:		V		SignOutButton 🚱 Sign out	
Hide on subj	ages:			CurrentUser	
Show for doc	ument types:	Select			
Display to ro	es:	Select			
General					
Shopping ca	rt link URL:				L
Shopping ca	rt link text:				
Wishlistlink	URL:				
Wishlistlink	text:				
Documents My Account li	nk URL:			Version: 3.1 Build: 3.1.30	58

General properties

Shopping cart link URL	URL of the page with Shopping cart web part. If not set, the default URL from the Site Manager -> Manager -> Settings ->
	E-commerce -> Shopping cart URL settings is used.
Shopping cart link text	Text of the link to the Shopping cart page.
Wishlist link URL	URL of the page with Wishlist web part. If not set, the default URL from the Site Manager -> Settings -> E-commerce -> Wishlist URL settings is used.
Wishlist link text	The link text for the Wishlist URL.
My Account link URL	URL of the page with My Account web part. If not set, the default URL from the Site Manager -> Settings -> E- commerce -> My account URL settings is used.
MyAccount link text	Text of the link to the My Account page.
Total price text	Text displayed next to the total price.
Show total price row	Indicates if total price row should be displayed.

5.2.5 Similar products by sale

The **Similar products by sale** web part displays N products which other customers buy with the chosen product most commonly. By default, 4 products are displayed at most.

For instance, if a first customer buys the product A together with product B and C, a second customer is in the product A detailed displayed with the product B and C which have been purchased together with the product A by the first customer.

	Sign in to CMS Desk. Sign in to CMS Site Manage	er. The default account is administrator wit	th blank password.		^
E-commerce starter site	Electronics for you		1	My account My wishlist	3
Search	Home News Products How	r to buy Company		Sign In	
Products	Products / Cell phones / Samsung SGF	l i620		Similar products	
 Cameras Cell phones M13 Diayers Notebooks PDAS PCs Poll How did you find this site? Referred by a friend Pint advertising Link from another web site Search engine 	Samsung SGH i620	Width: 94.9 Height 59.3 Weight(g): 126 Display type: TFT 65M colors Display tresolution: 20 × 240 Bluelout: yes IrDA: no GCRS: yes EDGE: yes HSCSD: no 3G: yes Wi-Fit: no Java: yes Builtin camera: yes	Print	Apple IPhone \$499.00 Nokia N92 S490.00 Customers also buy Apple IPhone \$499.00 Similar products by sale Latest news 2/13/2008	
Vote	Our price: \$ 650.00 Samsung SGH i620 - Color			Dear customers, our shop now supports payments through PayPal. You can use this feature from this day.	
Quick links » How to buy » Company » Company » News w Home	Red (+ \$ 0.00) Control Contro	620 is a light weight smartphone ru		2/13/2008 Dear customers, our company has become Apole partner so you can buy Apole's great products at our shop.	

You can modify the functionality of **Similar products by sale** by setting following properties in the **Web Part properties** dialog:

CMS Desk	Content My Desk Tools Administration	n Switch to Site Mana	ager Site: E-commerce Site ⊻ User:	Global Administrator Sign Out v3.1
New Delete Copy Move	Up Down Zedit	Preview 🧿 Live site 😑 List		0
E-commerce Site	Page Design	Form Product Properties		Display web part content 📀
Products		 /Products - page template: Ecommerce - Products 		
E Floduces	🖉 CMS Desk - Web Part properties	: Webpage Dialog	N	
	瀫 Web part properties (Sii	nilar products by sale)	Documentation	BestSellingProducts Best sening products
	Properties Layout			Apple iPhone \$ 499.00
😟 📄 PCs	Default			
 F How to buy Company Special pages 	ID:	CustomersAlsoBuy	O	Samsung SGH i620 \$ 650.00
 P Special pages Files 	Visible:			
	Hide on sub-pages:			 SimilarProducts 3
	This on sub pages.			 CustomersAlsoBut @
	Show for document types:	Select		✓ LatestNews Calest news
	Display to roles:	Select	to cart	2/13/2008
				Dear customers, our
	Content filter			shop now supports payments through PayPal. You can use
	Site name:	Select		this feature from this day.
	Path:	Select		2/13/2008 Dear customers,
	Maximum nesting level:	-1		our company has become Apple partner so you can buy Apple's great products at our
	Document types:	Select	l to cart	shop.
	Select top N products:	4		NewsletterSubscription @
	Refresh content	ОК Са	Incel Apply	E mail:
Documents Search	http://localhost/KenticoCM5_2/CMSDesk/Por	talEngine/WebPartProperties.aspx?aliaspath=%2fProducts&zoneid=zoneRight&	Local intranet	Version: 3.1 Build: 3.1.3058

Content filter main properties

Path	Path of the documents to be displayed.		
Document types	Types of documents that should be displayed, separated with semicolon (;).		
Select top N products	Selects only top N products. If blank, all items are selected		
WHERE condition	WHERE part of the SELECT query.		
ORDER BY expression	ORDER BY part of the SELECT query.		

Transformations main properties

Transformation name	Transformation used in the list view mode.
---------------------	--

5.2.6 Top N products by sale

The **Top N products by sale** web part displays the top N best-selling products. The best-selling products are chosen according to the frequency of their occurrence in customers' orders, not according to the total volume of sales.

For instance, if a customer buys 10 items of the product A and 2 items of the product B and a second customer buys 4 items of the product B, the product B is evaluated as the best-selling.

You can modify the functionality of **Top N products by sale** by setting following properties in the **Web Part properties** dialog:

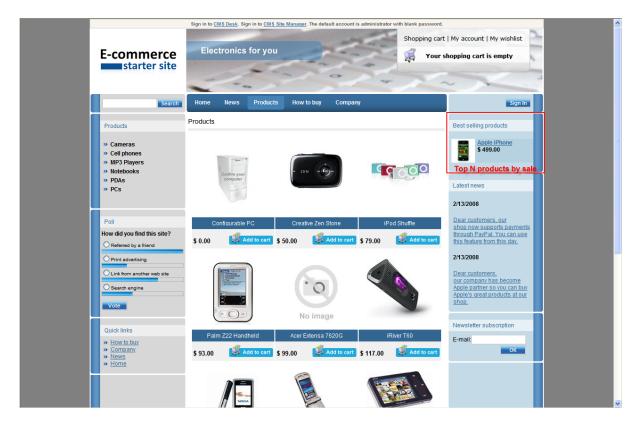
CMS Desk	Content My Desk Tools Administrat	ion Switch to	o Site Manager Site: E-commerce Site 💙 User: Global Administrator Sign Out v3.1
New Delete Copy Move	Up Down Zedit	💽 Preview 💽 Live site 📃 List	0
E-commerce Site	Page Design	Form Product Properties	Display web part content 🛛 💡
🗉 📄 News		Sign in to CMS Desk. Sign in to CMS Site Manager	r. The default account is administrator with blank password.
F Products	🔏 CMS Desk - Web Part propertie	es Webpage Dialog	g cart My account My wishlist
How to buy	尉 Web part properties (T	op N products by sales)	Documentation our shopping cart is empty
🗉 🝃 Special pages			our snopping cart is empty
Files	Properties Layout		
E IESIPEIRVO	Default		
	Web part control ID:	BestSellingProducts	Global Administrator Sign out
	Visible:	V	zoneRight
	Hide on subpages:		BestSellingProducts
	Show for document types:	CMS.Menultem Select	
	Display to roles:	Select	Apple iPhone \$499.00
	Content filter		
	Site name:	Select	CustomersAlsoBuy
	Path:	./% Select	2/13/2008
	Maximum nesting level:	-1	Dear customers, our shop now supports payments
	Document types:	Select	through PavPal. You can use this feature from this day.
	Select top N products:	4	2/13/2008
	Refresh content	OK	Cancel Apply Dear customers,
Documents Search	http://localhost/KenticoCMS_2/CMSDesk/P	ortalEngine/WebPartProperties.aspx?aliaspath=%2fProducts&zoneid=zon	eRight& Scal intranet

Content filter main properties

Path	Path of the documents to be displayed.	
Document types	Types of documents that should be displayed, separated with semicolon (;).	
Select top N products	Indicates how many best-selling products should be displayed.	
WHERE condition	WHERE part of the SELECT query.	
ORDER BY expression	ORDER BY part of the SELECT query.	

Transformations main properties

Transformation name	ansformation used in the list view mode.
---------------------	--



On the sample E-commerce site at the **Products** page, the **Top N products by sale** web part is configured to display 4 products at most from the currently chosen products category. Its properties are set to the following values:

Show for document types: CMS.MenuItem

The given web part is displayed only in **CMS.MenuItem** documents. On the sample **E-commerce site**, the given web part is therefore displayed only in the list of products of a chosen category and is hidden in the product detail.

Path: ./%

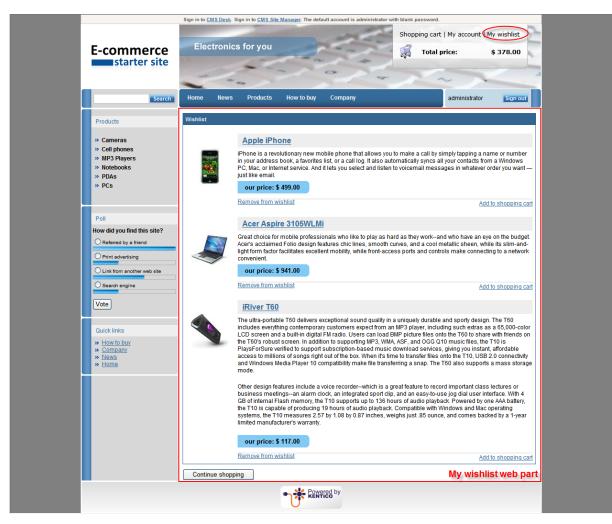
Only best-selling products from the currently selected category are displayed. For more information about the path expressions please refer to Appendix B - Path expressions chapter in **Kentico CMS Developer's Guide**.

Select top N products: 4

The maximum of 4 best-selling products is displayed.

5.2.7 Wishlist

The **Wishlist** web part displays the wishlist of the currently logged-on user.



You can modify the functionality of **My wishlist** by setting following properties in the **Web Part properties** dialog:

CMS Desk Content My Desk	Tools Administration		Switch to Site Manager	Site: E-commerce Site 👻 User: Global Adminis	strator Sign Out v3.1
New Delete Copy Move Up Down	Edit Preview	💽 Live site 📃 List			0
		duct Properties	es Webpage Dialog		Commentation
Documents Search	Cuick links How to buy Company Curpany Hows Horng	Transformations Transformation name: HTML Envelope Web part container: Web part container title:	CMS.Root.Ecommerce	Site - Wishi Select Edit	

Main properties

Transformation name	Transformation used in the list view mode.
---------------------	--

5.3 Displaying and resizing images

5.3.1 Overview

If you want to use a picture multiple times on your web site, each time in different sizes, it is sufficient to upload it just once. KenticoCMS is able to resize it for you. Please consider that size of a picture can be only decreased, not increased, though. For this reason, it is important that you upload your pictures in the maximum size you want to use on your web site.

5.3.2 Displaying images

1. How to display image in transformation

To get an image in the given size, you need to insert one of the following methods into the transformation:

a) Getting image by its attachment GUID

GetImage(object attachmentGuidColumn, object maxSideSize, object width, object height, object alt) GetImage(object attachmentGuidColumn) GetImage(object attachmentGuidColumn, int maxSideSize) GetImage(object attachmentGuidColumn, int width, int height)

b) Getting image by its URL

GetImageByUrI(object imageUrI, object maxSideSize, object width, object height, object alt) GetImageByUrI(object imageUrI) GetImageByUrI(object imageUrI, int maxSideSize) GetImageByUrI(object imageUrI, int width, int height)

These methods use following parameters:

attachmentGuidColumn - attachment GUID imageUrl - image url maxSideSize - required image max side size width - required image width height - required image height alt - image alternate text

All the methods generate HTML code for inserting an image according to given parameters.

Examples of displaying image in transformation by its URL

a) Using Live URL

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CMS Desk Ontent My Desk	Tools Administration Switch to Site Manager Site: E-commerce Site V User: Global Administrator Sign Ou	it v3.1
New Delete Copy Move Up Down	Edit Q Preview Live sile List	2
E-commerce Site	Page Design Form Product Properties	2
Products How to buy	General Save	
🕘 📄 Company	Metadata	
😟 🍃 Special pages 🖃 🍃 Files	Menu Path Document alias: ecommerce_site_logo	
🚽 Kentico logo	Workflow Document URL path:	
📙 Header background	Versions Use custom URL path	
🖶 Homepage banner	Design	
🚽 😓 Default product image	Security CSS stylesheet (default)	
	Other properties Document name: Type: File Created by: Global Administrator Created: 320/2008 5:18:00 PM Last modified Global Administrator by: Global Administrator Last modified 3/20/2008 5:22:56 PM Owner: Global Administrator Node ID: 13 Node GUID: 724/2d/2-ebf4-41d4-bfe6-7/fdf0/4daff Alias path: /Files/Header logo Culture: English - United States Name path: /Files/Header logo Live URL: http://tocalhost.1469/KentlicoCMS_ecommerce2/Files/ecommerce_site_logo.aspx	
Documents Search	Version: 3.1 Build: :	.1.3020

```
<%#GetImageByUrl(~/Files/ecommerce_site_logo.aspx )%>
```

b) Using the field value of the given document type that represents the image URL (e.g. SKUImagePath):

Examples of displaying image in transformation by its attachment GUID

a) Using the field value of the given document type that represents the attachment GUID

In the following example, we have defined the new document type **Employee**. This type has two attributes: **Employee name** specified in the **EmployeeName** column and **Employee photo** specified in the **EmployeePhoto** column.

Page Design	Form Product Properties
📙 <u>Save</u> 👿	Spell check
employeeID:	1
Employee name:	David Simons
Employee photo:	Image: Weight of the system Image: Weight of the system Upload: Image: Browse
Publish from:	4/21/2008 09:40:25
Publish to:	Now

To display the employee photo, you need to insert the **GetImage** method with the following syntax into the transformation.

2. How to display product image in transformation

To get a product image in the given size, you have to insert the **GetProductImage** method with the following syntax into the transformation:

GetProductImage(object imageUrl, object alt) GetProductImage(object imageUrl, object width, object height, object alt) GetProductImage(object imageUrl, object maxSideSize, object alt)

An example of displaying an image without resizing:

<%#EcommerceFunctions.GetProductImage(Eval("SKUImagePath"), Eval("SKUName"))%>

The GetProductImage method generates HTML code that will insert an image into your page. If the product image is not set, the method displays the default product image (see Sitemanager settings for more details) in the given size.

Home	News	Products	How to	buy	Company	,		
Products	/ Notebool	ks						
Defaul	t product	t image						
	No image	e						
Acei	Extensa 76	20G	Acer Asp	oire 3105\	WLMi	Asus	F3U AP059C	
\$ 99.00		dd to cart \$	941.00	🗊 Ad	ld to cart	\$ 999.00	🛒 Add to d	art

Please see the examples in the Resizing images chapter for more details.

Storing ima
For the best be stored in chapter.

ges

performance while loading images, please ensure images are enabled to the file system. For more details, please refer to the Storing images

5.3.3 Storing images

To improve the performance while loading images, please check Store Files in File System at CMS Site Manager -> Files.

Checking this option enables images to be stored in the file systems. Thus, anytime an image of the given size is needed, it can be loaded directly from the file system and doesn't have to be resized again from the original picture.

To be able to store images in the file system, the modify permissions have to be set for the whole web project (See the Disk permissions problems chapter in Kentico CMS Developer's Guide for more details).

All metafiles and attachments are stored in the folder specified at CMS Site Manager -> Settings -> Files -> Files folder. If the Files folder is not set, the following happens:

- The object metafiles that are not assigned to the specific web site are stored in <web project folder>/CMSFiles.

- The object metafiles that are assigned to the specific web site are stored in <web project folder>/<site name>/metafiles.

- Attachments (they are always assigned to the specific web site) are stored in <web project folder>/<site name>/files.

5.3.4 Resizing images

This chapter explains how to resize product images. However, all images in general can be resized in the following manner with usage of the methods for displaying images (**GetImage()** and **GetImageByUrl()**) with appropriate parameters.

You can set a size of the original image (width: 300px, height: 150px) in the following ways:



1. Setting Maxsidesize value

This sets the longer side to the value specified as **Maxsidesize**. The other side is calculated automatically so that the aspect ratio remains the same with the original image. In the following image, **Maxsidesize** is set to 250px.

The **GetProductImage** method for resizing an image to the Maxsidesize value of 250px:

```
EcommerceFunctions.GetProductImage(Eval("SKUImagePath"), 250, Eval("SKUName")))
```



2. Setting Height value

This sets the height of an image. The width is calculated automatically so that the aspect ratio remains the same with the original image. In the following image, **Height** is set to 100px.

```
EcommerceFunctions.GetProductImage(Eval("SKUImagePath"), 0, 100,
Eval("SKUName"))
```



3. Setting Width value

This sets the width of an image. The height is calculated automatically so that the aspect ratio remains the same with the original image. In the following image, **Width** is set to 150px.

EcommerceFunctions.GetProductImage(Eval("SKUImagePath"), 150, 0, Eval("SKUName"))



4. Setting Width&Height value

The given values are set on condition they are not greater than the original size of an image. Please note that the aspect ration may not be maintained. In the following image, **Width** is set to 100px and **Height** is set to 150px.

```
EcommerceFunctions.GetProductImage(Eval("SKUImagePath"), 100, 150,
Eval("SKUName"))
```



In the following image, Width is set to 300px and Height is set to 50px.

```
EcommerceFunctions.GetProductImage(Eval("SKUImagePath"), 300, 50,
Eval("SKUName"))
```



If at least one value is greater than the original size of an image, the original size is set. In the following image, **Width** is set to 600px and **Height** is set to 300px.

EcommerceFunctions.GetProductImage(Eval("SKUImagePath"), 600, 300, Eval("SKUName"))



5.4 Tools

5.4.1 Overview

Kentico CMS includes a wide range of modules which can be used to build your e-commerce solution.

The included modules are:

- Bizforms
- Blogs
- Booking system
- Content staging
- Event calendar
- File import
- Forums
- GeoMapping
- Image gallery
- Messaging
- Newsletters
- Polls
- Reporting
- RSS feeds
- User contributions
- Web analytics
- Web farm synchronization

Please note that you are not limited to the pre-defined modules. You can easily create your own modules with the desired functionality. Please see the **Custom modules** chapter in **Kentico CMS Developer's Guide** for more details.

Please note that not all versions of Kentico CMS support all modules. For more information about modules which are included in the specific version of Kentico CMS please see the the feature matrix at Kentico web site (http://kentico.com/cms-asp-net-features/Feature-Matrix.aspx).



5.4.2 BizForms

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The BizForms module enables you to create and publish simple on-line forms without writing a single line of code. For instance, you can manage communication with your customers more effectively using the **Contact us** form.

You can edit BizForms properties at CMS Desk -> Tools -> BizForms -> <edit BizForm>.

CMS Desk	Content	My Desk Tools Administ	tration	Switch to Site Manager	Site: E-commerce Site 🔽 User: Global Administrator Sign	Out v3.1
Tools BizForms		BizForm Proper	ties			0
🗤 🕡 Blogs 		BizForms + Contact Esho	p			
Content staging		General Fields Form	Notification e-mail Autoresponder Security Data			
File import Second Action	Form display name:	Contact Eshop				
		Form code name: Table name	ContactEshop Form ContactEshop			
Reporting		After the form is submitte				
Web Analytics		Oisplay text:	Thank you for your message. We will contact you			
		Redirect to URL:				
		O Continue editing				
		Submit button text:	Send message			
		Submit button image:				
			OK			

For more details and information about BizForms please refer to the **Module BizForms** chapter in **Kentico CMS Developer's guide**.

5.4.3 Blogs

The Blogs module allows you to publish a personal or company blog. You can publish multiple blogs on the same site and there can be multiple editors for each blog.

You can edit blogs at CMS Desk -> My Desk -> My Blogs.

CMS Desk Conten	t My Desk Tools Administration	Switch to Site Manager	Site: Corporate Site 💙 User: Global Administrator	
My Desk Qecent documents Outdated documents Waiting for my approval Checked out by me My recycle bin My documents My profile Change password My blogs	My blogs Actions Name Image: State of the state o			0

For more details and information about blogs please refer to the **Module Blogs** chapter in **Kentico CMS Developer's guide**.

5.4.4 Booking system

The booking system enables you to create an event and manage its attendees. After attendees are added, you can send e-mails to them with the important information about the event. The bookin system can be used both for on-line and off-line meetings.

You can edit events and add attendees at CMS Desk -> Tools -> Booking system -> <view event>.

CMS Desk	Content	My Desk	Tools	Administration				Switch to Site Manager	Site: Corporate Site 💙	User: Global Administrator	Sign Out v3
	🕌 Ev	ents								C	
📲 Booking system 🐴 Content staging		Actions	Event		Date	Capacity	Attendees Ope	n from Open to			
E-commerce		<u>a</u>	Examp	le conference	5/7/2009 2:22:09 PM	10	0				
🚯 File import		٩	Decem	ber conference	12/21/2008 9:00:00 AM	10	0				
Second Second		٩	Novem	ber conference	11/1/2008 1:00:00 PM	100	0				
Sewsletter		٩	Octobe	r conference	10/15/2008 8:00:00 AM	30	0				
Reporting		٩	Septen	nber conference	9/27/2008 9:00:00 AM	20	0				
🚡 Web Analytics											

For more details and information about Booking system please refer to the **Module Booking system** chapter in **Kentico CMS Developer's guide**.

5.4.5 Content staging

The **Content staging** module allows you to store separately the content in development, staging (editing) and production (live) environment. It allows you to easily transfer document and object changes to another server or make a complete synchronization of documents and objects from one server to another.

You can manage content staging at CMS Desk -> Tools -> Content staging.

CMS Desk Conten	t My Desk Tools Administration	Switch to Site Manager Site: E-commerce Site 🗹 User: Global Administrator Sign Out 🗸
	Content staging Documents Objects Servers Document tasks Server. (all) C Ecommerce Site F Home News F Products F How to buy F Company F Company F Files	Run condete sundronizate Sinchronize current document Sinchronize current subtree There are no tasks to process within current location

For more details and information about Content staging please refer to the **Module Content Staging** chapter in **Kentico CMS Developer's guide**.

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5.4.6 Event calendar

You can use the **Event calendar** module for displaying documents ordered by date in a calendar. Various document types can be displayed in the calendar, depending on the settings.

For the Event calendar module implementation, use the Events -> Event calendar web part.

Portal engine - Web part selection V	Webpage Dialog							
e . ∰ Blogs e . ∯ Booking system e . ∰ Community services	Event of	alenda	r					
🕣 🥡 E-commerce	≤		N	ovember 2	008		≥	
Event calendar	Sun	Mon	Tue	Wed	Thu	Fri	Søt	
€∰ Forums €∰ Full-text search	26 No event	27 No event	28 No event	29 No event	30 No event	31 No event	1 <u>November</u> conference	
 i i General i i Google services i i Google services 	2 No event	3 No event	4 No event	5 No event	6 No event	7 No event	8 No event	
Media Media Membership Messaging Mavigation News	Displays i	n calenda	r schedule	ed events.				
Newsletters	V							
p://localhost/KenticoCM512/CM5Desk/PortalEngine	e/SelectWebPart.asp	<i>,</i>				Local intra	net	

For more details and information about **Event calendar** please refer to the **Module Event calendar** chapter in **Kentico CMS Developer's guide**.

5.4.7 File import

The **File import** module allows you to import many files including their folder structure from the disk to Kentico CMS content repository, so that you do not have to upload the one-by-one using the user interface.

You can configure the path to your import directory at CMS Desk -> Tools -> File import.

CMS Desk Content	My Desk Tools Administration		Switch to Site Manager	Site: E-commerce Site 🕑 User: Global Administrator	Sign Out	
 Tools BizForms Blogs Content staging E-commerce Forums Newsletter Polls Reporting Web Analytics 	File import Select files to be imported from Target Alias Path: Culture: Delete Imported Files from Disk Include file extension in name:	c:\Inetpub\wwwroot\KenticoCMS\cmsimportfiles: / Select Path English - United States V Start Import				9

For more details and information about **File import** please refer to the **Module File import** chapter in **Kentico CMS Developer's guide**.

5.4.8 Forums

The Forums module allows your customers to add comments and feedback to each product.

You can edit forums on your web site at CMSDesk -> Tools -> Forums -> <edit forum group>.

	Content	My Desk	Tools	Administration					Switch to Site Manager	Site: E-commerce Site 💟 User: Global Administrator	Sign Out	V3
BizForms		Se For	rum g	roup properties								(
Blogs		Groups	AdHo	c forum group								
📙 Booking system		<u>oroupo</u> .										
Content staging		Forums	Genera	al View								
File import		🏭 F0	orums	5								
Second Second												
- 🍙 Newsletter - 📀 Polls		- 4 Add	a torum									
Reporting		Forum		LIKE								
The Web Analytics												
		S	Show									
		Action	s	Forum name	Status	Moderated	Threads	Posts	Last post	Last post by		
		💊 🗶	û 🍕	Configurable PC	Open	No	1	1	5/26/2008 12:09:40 PM	administrator		
		💊 🗶	û 🎝	Canon Digital Rebel XTi	Open	No	2	5	3/5/2008 7:15:51 PM	Jane		
		💊 🗶	۰ 🍕	Nikon D40	Open	No	1	2	3/5/2008 7:06:03 PM	administrator		
	4	💊 🗶	û 🎙	iRiver T60	Open	No	1	3	3/5/2008 6:48:45 PM	Alex		
	1	💊 👗	û 🎙	Tiger Extreme PC	Open	No	1	4	3/5/2008 6:57:59 PM	administrator		
		💊 🗶	û 🎙	iPod Nano	Open	No	1	3	3/5/2008 7:18:43 PM	Mike		
		S 🕺	û 🎙	Asus A639	Open	No	1	2	3/5/2008 7:20:49 PM	administrator		
		💊 👗	û 🎙	Motorola V3 Razr	Open	No	1	2	3/5/2008 7:24:47 PM	administrator		
		💊 🗶	û 🎙	Nokia 6300	Open	No	1	2	3/5/2008 7:27:13 PM	administrator		
		💊 🗶		Creative Zen Stone	Open	No	1	2	3/5/2008 7:30:01 PM	administrator		
		📃 💊 🗶	û 🎙	HP iPAQ hx2795 Pocket P	Open	No	1	2	3/5/2008 7:32:30 PM	administrator		

After choosing a forum group, you can edit(\mathbb{S}), delete(\mathbb{X}) and move up(\mathbb{T}) and down(\mathbb{P}) individual forums.

CMS Desk	Content	My Desk	Tools	Administration			Switch to Site Manager	Site: E-commerce Site	✓ User: Global Admin	istrator Sign Out	
Tools BizForms		Se For	um gro	up proper	ties						0
🕠 😈 Blogs		Groups +	AdHoc fo	rum group							
Content staging		Forums	General	View							
E-commerce		🗿 Foi	rum pre	perties							2
			 Configu 								
S Newsletter											
······································				Subscriptions	Moderators	Security View					
Web Analytics			igurable ly new th			🥏 Post	properties				
						<u>View</u> ► My r	new thread				
						User name:	administrator				
						User e-mail:	admin@yourdomain.com				
						Subject:	My new thread				
	1					Text:	This is my new thread.		~		
									~		
						Signature:	Administrator signature		~		
						Signature.			~		
							OK				

After you choose a forum to edit you can add, edit and delete threads and posts at of the given forum.

For more information please refer to the Module Forums chapter in Kentico CMS Developer's guide

5.4.9 GeoMapping

The **GeoMapping** module uses Google Maps to display content on the map. You can use this module to display your offices, your store, your partners or real estates you offer on a map.

For the GeoMapping module implementation, use the Google services -> Google Maps web part.

🖉 Portal engine - Web part selection Webpage Dialog 🛛 🛛 🔀				
💼 Select web part				
Constructor Constructor Constructor Constructor Constructor Concel Constructor Concel Constructor Constructor Concel Constructor Concel Constructor Concel Constructor Construct	<section-header><text><text></text></text></section-header>			
http://localhost/KenticoCMS12/CMSDesk/PortalEngine/Select	WebPart.aspx 😒 Local intranet 🔬			

For more details and information about **GeoMapping** please refer to the **Module GeoMapping** chapter in **Kentico CMS Developer's guide**.

5.4.10 Image Gallery

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Using the **Image Gallery** module, you can create easily image gallery pages. The module encompasses three page templates and three web parts suitable for creating image galleries.

For the implementations of **Image Gallery**, use the **Content slider**, **Image gallery** and **Lightbox** web parts.

🖉 Portal engine - Web part selection Web	page Dialog					
💦 Select web part						
🕣 👘 General 💦						
🔒 🧔 Google services						
Listings and viewers						
💦 Calendar						
💦 Content slider						
💦 Datalist						
🔤 📩 Datalist with custom query						
🔤 📩 Document pager						
💏 Grid						
🖓 💦 Grid with custom query						
🔤 🚉 Image gallery						
🔤 🚵 Lightbox						
🗠 🚖 Random document						
Related documents						
🚖 Repeater						
Repeater with custom query						
Scrolling text						
OK Cancel						
		C I l := h h				
http://localhost/KenticoCMS24/CMSDesk/PortalEngine/Sel	iectwebPart.aspx	😼 Local intranet 💦 🏢				

For more details and information about **Image Gallery** please refer to the **Module Image Gallery** chapter in **Kentico CMS Developer's guide**.

5.4.11 Messaging

The **Messaging** module allows you to send, receive and manage messages. Its purpose is to provide an internal way of communication with other users of the website.

For the **Messaging** module implementation, use the web parts from the **Messaging** folder in the **Web** part selection dialog.

Portal engine - Web part selection Webpage Dialog		×
💦 Select web part		
 Events Forums General Google services Existings and viewers Existings and viewers Media Membership Messaoino Contact list Inbox Inbox My messages Outbox Send message Navigation Navigation 		
OK Cancel		
http://localhost/KenticoCMS12/CMSDesk/PortalEngine/SelectWebPart.aspx	🧐 Local intranet	

For more details and information about **Messaging** please refer to the **Module Messaging** chapter in **Kentico CMS Developer's guide**.

5.4.12 Newsletters

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The Newsletter module allows you to author and mail out e-mail newsletters. Though newsletters, you can inform your customers about new products, current offers and discounts and much more. The newsletter can be static or dynamic.

You can edit newsletters at CMS Desk -> Tools -> Newsletters.

CMS Desk Content My Desk Tools Administration Site Lecommerce Site Verse Global Administration Sign Out
Content My Dek Tools Administration Examination of the content of

For more details and information about newsletters please refer to the **Module Newsletters** chapter in **Kentico CMS Developer's guide**.

5.4.13 Polls

The Polls module enables you to create and publish polls with single or multiple answer so that you are able to get vital information about how are your customers and what they want.

CMS Desk Content	t My Desk Tools Administration Switch to Site Manager Site: E-commerce Site 🕑 User: Global Administration	
- Tools	S Poll properties	0
	Polls How did you find this site?	
📲 Booking system 🖏 Content staging	General Answers Security Sites View	
E-commerce	Answers	0
Services Services	New answer 🦹 Reset answers	
······································	Actions Text	Count
🚮 Web Analytics	💊 🗶 🏕 🖑 Referred by a friend	13
	N X 1 V Print advertising	4
	Ink from another web site Ink from another web site Ink from another web site Ink from another web site	9
		5

You can edit polls at CMS Desk -> Polls -> <edit poll>.

After you choose a poll to edit, you can set the poll question at the **General** tab and the poll answers at the **Answers** tab.

For more details and information about polls please refer to the **Module Polls** chapter in **Kentico CMS Developer's guide**.

5.4.14 Reporting

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The Reporting module enables you to create internal reports to watch activity in the Kentico CMS system and on the web site. Kentico CMS comes with several pre-defined e-commerce reports that show statistics related to your online business.

The following pre-defined e-commerce reports are available:

- Inventory
- Number of orders per day
- Number of orders per month
- Number of orders per year
- Sales per day
- Sales per month
- Sales per year
- Top 100 customers by volume sales

You can edit reports at CMS Desk -> Tools -> Reporting -> <edit Report category>.

CMS Desk	Content	My Desk	Tools	Administration		Switch to Site Manager	Site: E-commerce	Site 💟 User: Global Administrator	Sign Out	v3.1
Tools BizForms		👰 Re	port ca	tegory pro	perties					2
🔲 Blogs		Report ca	tegories	 E-commerce 	9					
Content staging		Reports	Genera							
E-commerce		🛃 R	eports							
Sorums			v report							
O Polls										
Reporting		Action		Display name	1					
🖓 Web Analytics			-	Inventory						
				Number of ord						
					ers per month					
				Number of ord	ers per year					
				Sales per day						
	_			Sales per mo						
	4			Sales per yea						
		S 🕺	ii 👘	Top 100 custo	mers by volume of sales					

After choosing a report category, you can edit(S) or delete (K) individual reports.

For more details and information about how to set report properties please refer to the **Module Reporting** chapter in **Kentico CMS Developer's guide**.

5.4.15 RSS Feeds

Kentico CMS allows you to publish content using a RSS 2.0 feed. The default installation contains a simple CMSPages \NewsRss.aspx page that shows how to build your own RSS feed. It works with news items, but you can modify the code so that it displays a different type of documents.

For more details and information about **RSS Feeds** and about how to create RSS Feed for a different type of documents please refer to the **Module RSS Feeds** chapter in **Kentico CMS Developer's guide**.

5.4.16 User Contributions

The **User Contributions** module allows you to create content editing interface for site members. Using this interface, the web site visitors are able to create, edit and delete content, even if they are not editors and cannot access Kentico CMS Desk.

For the **User Contributions** module implementations, use the **Contribution list** and **Edit contribution** web part.

🖉 Portal engine - Web part selection	Webpage Dialog		×
💦 Select web part			
🖶 🧔 Full-text search			
📺 👘 General 🖶 👘 🕼 Google services			
🚊 🥡 Media			
🕕 🧔 Membership			
📺 🧊 Messaging			
📄 🧔 Navigation			
🕕 崎 News			
🕕 🥡 Newsletters			
E C Reporting			
Text			
🕒 💋 User contributions			
Contribution list			
Edit contribution			
🕣 🥡 Web services	▼		
OK Cancel			
http://localhost/KenticoCM512/CM5Desk/PortalEr	ngine/SelectWebPart.aspx	🧐 Local intranet	

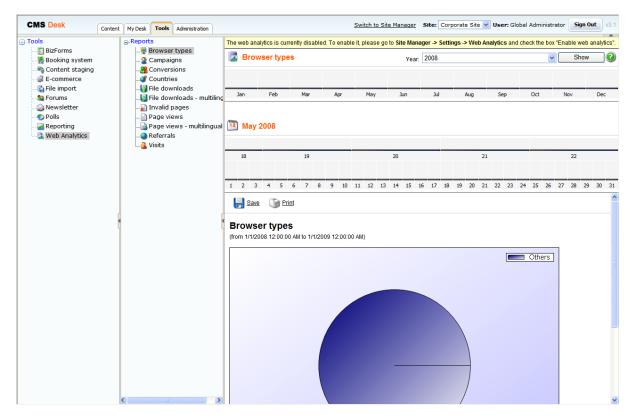
For more details and information about **User Contributions** please refer to the **Module User Contributions (Wiki)** chapter in **Kentico CMS Developer's guide**.

5.4.17 Web Analytics

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The Web Analytics module enables you to track and analyze web site visits, page views, file downloads and other metrics of the web site.

You can modify view the Web Analytics reports at CMS Desk -> Tools -> Web Analytics.

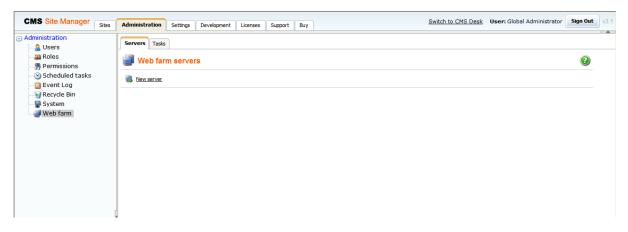


For more details and information about **Web Analytics** please refer to the **Module Web Analytics** chapter in **Kentico CMS Developer's guide**.

5.4.18 Web Farm synchronization

Kentico CMS offers native web farm support. The web farm support provides the synchronization of the changes made to the site settings on one of the servers to all the other servers and provides synchronization of the files uploaded to the site to all other servers.

You can manage web farm servers at CMS Site Manager -> Administration -> Web farm.



For more details and information about **Web Farm synchronization** please refer to the **Module Web Farm synchronization** chapter in **Kentico CMS Developer's guide**.

5.5 Adding items to the shopping cart

The items can be added to the shopping cart by calling the page with the **Shopping cart** web part with following URL parameters:

- **productId** - the ID of the product stored in the NodeSKUID database field (in the CMS_Tree table) or SKUID (in the COM_SKU table)

- quantity - the number of product units to be added to the shopping cart

- options - the string of the selected product option IDs separated by commas

It means your link will typically look like this:

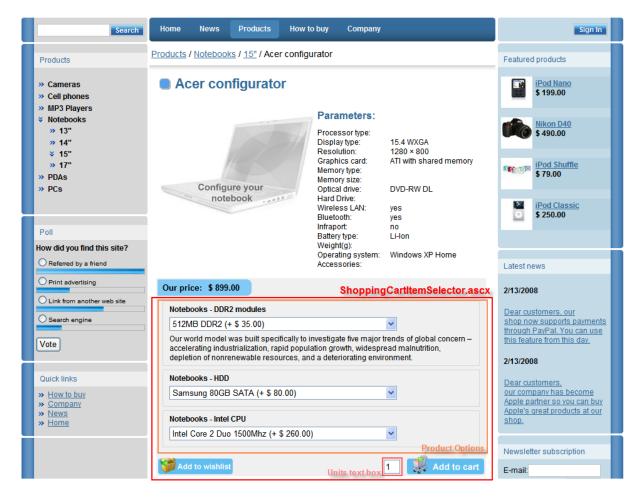
```
<a href="~/shoppingcart.aspx?productId=10&quantity=1&options=12,24">Add to cart</a>
```

This link has been generated by the following **ShoppingCartItemSelector** control. All you have to do is adding the control to transformation and setting its properties accordingly.

1. Product detail

```
<%@ Register Src="~/CMSModules/Ecommerce/Controls/ProductOptions/
ShoppingCartItemSelector.ascx" TagName="CartItemSelector" TagPrefix="ucl" %>
<ucl:CartItemSelector id="cartItemSelector" runat="server" SKUID='<%#
ValidationHelper.GetInteger(Eval("SKUID"), 0) %>' SKUEnabled='<%#
ValidationHelper.GetBoolean(Eval("SKUEnabled"), false) %>'
AddToCartImageButton="AddToCart.gif" ShowUnitsTextBox="true"
ShowProductOptions="true" AddToWishlistImageButton="AddToWishlist.gif" />
```

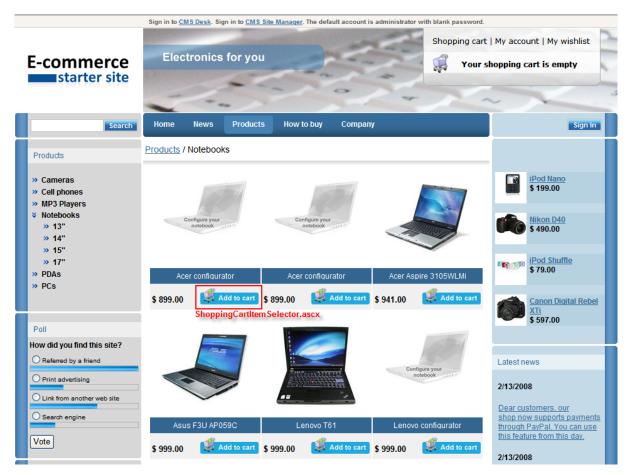
The control has the **ShowUnitsTextBox** and **ShowProductOptions** properties set to **true**. Therefore, the product options and units text box are visible on the web site. Please note that **AddToWishlistImageButton** properties is set as well. Thus, the **Add to wishlist** button is displayed as well.



2. Product list

```
<%@ Register Src="~/CMSModules/Ecommerce/Controls/ProductOptions/
ShoppingCartItemSelector.ascx" TagName="CartItemSelector" TagPrefix="ucl" %>
<ucl:CartItemSelector id="cartItemSelector" runat="server" SKUID='<%#
ValidationHelper.GetInteger(Eval("SKUID"), 0) %>' SKUEnabled='<%#
ValidationHelper.GetBoolean(Eval("SKUEnabled"), false) %>'
AddToCartImageButton="AddToCart.gif" ShowUnitsTextBox="false"
ShowProductOptions="false" />
```

This control has **ShowUnitsTextBox** and **ShowProductOption** properties set to **false**. Therefore, the product options and units text box are not visible on the web site.



Complete list of shopping cart item selector properties:

SKUID	Product ID
SKUEnabled	Indicates whether the current product is enabled. If set to true , the button/link for adding product to the shopping cart is rendered, otherwise it is not rendered.
AddToCartImageButton	File name of the image which is used as a source for image button to add product to the shopping cart, default image folder is '~/App_Themes/ <stylesheet name="">/Images/ShoppingCart/'.</stylesheet>
AddToCartLinkText	String (simplet text or localizable string) of the link to add product to the shopping cart.
ShowUnitsTextBox	Indicates if text box for entering number of units to add to the shopping cart should be displayed. If it is hidden, number of units is equal to DefaultQuantity.
ShowProductOptions	Indicates if product options of the current product should be displayed. If ShowProductOption is set to false and a customer clicks Add to shopping cart for a products with specified product options, she is redirected to product detail where she is required to choose product option before the product can be added to the shooping cart.
DefaultQuantity	Default quantity when adding product to the shopping cart, it is set to 1 by default.
ShowTotalPrice	If true, total price will be shown in the bottom section of the product options list.
ShowPriceIncludingTax	If true, the total price enabled by the ShowTotalPrice property and product option prices will be displayed with tax added. If false, tax will not be included in the total price.

Displaying total product price

If you enable the **ShowTotalPrice** property of the shopping cart item selector, a total price of the product including prices of product options will be displayed at the bottom section of the product options list, as you can see in the screenshot below. The price can either be displayed with or without tax, based on the value of the **ShowPriceIncludingTax** property of the control. Displayed prices of the product options are affected by the value of this property too.

Our price: \$899.00 Without tax: \$899.00		
Notebooks - Intel CPU		
Intel Core 2 Duo 1500Mh	(+ \$260.00)	
Notebooks - HDD		
Samsung 80GB SATA (+	\$80.00)	
Notebooks - DDR2 modules		
512MB DDR2 (+ \$35.00)	~	
- accelerating industrializat	pecifically to investigate five major trenc on, rapid population growth, widesprea esources, and a deteriorating environm	d malnutrition,
	tal price (without tax): \$1274.00	



Shopping cart URL

If you use **ShoppingCartItemSelector**, the shopping cart URL is taken from the **Site Manager -> Settings -> E-commerce -> Shopping cart URL** value.

5.6 Adding items to the wish list

The items can be added to the wish list by calling the page with the **Wishlist** web part with following URL parameter:

- **productId** - the ID of the product stored in the NodeSKUID database field (in the CMS_Tree table) or SKUID (in the COM_SKU table)

It means your link will typically look like this:

```
<a href="~/wishlist.aspx?productId=10">Add to wish list</a>
```

In the transformations, you can use the following method to display the link to the wish list:

```
<%# EcommerceFunctions.GetAddToWishListLink(Eval("NodeSKUID")) %>
```

You can use the **ShoppingCartItemSelector** control to display the **Add to wishlist** button as well. All you have to do is to set one of the following properties.

AddToWishlistImageButt on	File name of the image which is used as a source for image button to add product to the wish list, default image folder is '~/App_Themes/ <stylesheet name="">/Images/ShoppingCart/'.</stylesheet>
AddToWishlistLinkText	String (simplet text or localizable string) of the link to add product to the wish list.



Wish list URL

If you use **ShoppingCartItemSelector** or functions like GetAddToWishListLink, the wish list URL is taken from the **Site Manager -> Settings -> E-commerce -> Wish list URL** value.

5.7 Displaying product price

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Displaying product price on the web site

The price is stored in the COM_SKU.SKUPrice field. The following method allows you to display the price **in your transformation** in the currently selected currency, with appropriate discount level and in the appropriate format specified at **CMS Desk -> Tools -> E-commerce -> Configuration -> Currencies -> <edit currency > ->Currency formatting string**:

```
<%# EcommerceFunctions.GetFormatedPrice(Eval("SKUPrice"),
Eval("SKUDepartmentID")) %>
```

If you want to display prices with applied discount level and taxes as well, use the following function instead.

```
<*# EcommerceFunctions.GetFormatedPrice(Eval("SKUPrice"),
Eval("SKUDepartmentID"),
Eval("SKUID")) %>
```

Please note: computation of all product taxes is time-consuming. Therefore, the result is stored in the cache as specified at **CMS Site Manager** -> **Settings** -> **Web Site** -> **Cache content (minutes)**.

If you don't want to display prices with the applied discount level and taxes, use the following function instead.

```
<%# EcommerceFunctions.GetFormatedPrice(Eval("SKUPrice")) %>
```

All product prices are displayed in currency chosen according to the following priorities:

- 1. the currency of the shopping cart
- 2. the preferred currency of a customer
- 3. the default currency

Therefore, if the currency of the shopping cart is not set yet (the shopping cart hasn't been created so far), all product prices are displayed in the preferred currency of the given customer. If the customer doesn't specify the preferred currency, all product prices are displayed in the default currency.

5.8 Getting product URL

In some cases, you may need to get the URL of the document to which some product is assigned. Knowing product URL can be useful when you work with specific web parts such as the **Product datalist** which is using the e-commerce product (SKU) properties to display products instead of the standard CMS documents.

For this, you need to insert the **GetProductUrl** method with the following syntax into your transformation:

<%# EcommerceFunctions.GetProductUrl(Eval("SKUID")) %>

As a result, you will get the product URL in the /CMSPages/GetProduct.aspx?productId=125 format.

Alternatively, you can provide the method with values of the SKUGUID and SKUName columns:

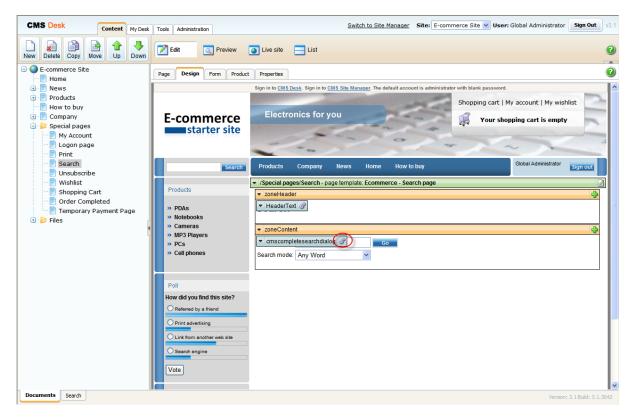
This syntax returns the URL in the ~/getproduct/<skuguid>/<safe_skuname>.<extension> format.

5.9 Searching

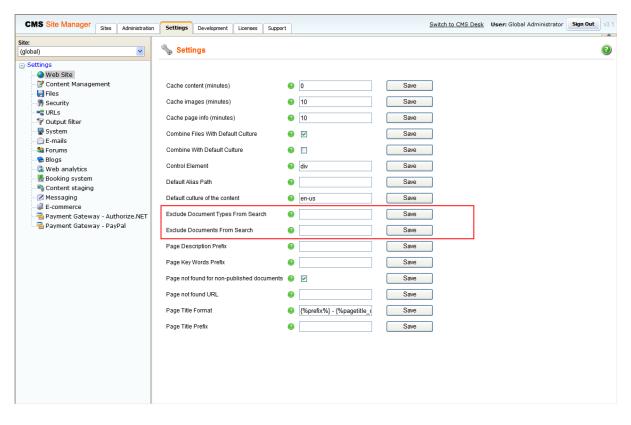
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Kentico CMS comes with the built-in search engine that enables you to search for the given expression in the content of your web site.

You can modify the search engine functionality at CMS Desk -> Content -> E-commerce -> Special Pages -> Search -> cmscompletesearchdialog.



Additionally, you can specify what documents and types of documents exclude from the search at CMS Site Manager -> Settings -> Web Site.



Exclude Document Types From Search	Specifies document types that should NOT be searched. You can specify several document types separated with semicolon (;).
Exclude Documents From Search	Specifies site sections that should be excluded from search. You can specify several site sections or particular documents, separated with semicolon (;). You can use wildcard character %.

For the E-commerce site, by default, the **cms.file** is set as a document type that is excluded from search. Therefore, the **File** document type (cms.file) won't be searched.

For more information about Kentico CMS search engine, please refer to the **Search engine** chapter in **Kentico CMS Developer's guide**.



6 Configuration settings

6.1 Configuration overview

When you start using the **E-commerce module** it's recommended that you configure it in the following order:

- 1. Enable the **E-commerce module** at **Site Manager -> Settings** if it's not enabled yet. More details: Enabling the e-commerce module
- 2. Configure **access rights** to the **E-commerce module** interface. More details: Security configuration
- 3. Set up **countries and states**. More details: Countries and states
- 4. Configure **store settings**. More details: Store settings
- 5. Set up **departments** and assign **store administrators** to their **departments**. More details: Departments
- 6. Configure **currencies**. If you plan to use multiple currencies, specify the **exchange rates**. More details: Currencies, Exchange rates
- 7. Set up **shipping options**. More details: Shipping options
- 8. Set up **payment methods**. More details: Payment methods
- 9. Configure **tax classes**. More details: Tax classes
- 10.Set up order processing **workflow**. More details: Order status
- 11.Configure **public and internal product status**. More details: Public status, Internal status
- 12.Modify the **invoice/receipt** design. More details: Invoice
- 13.Create documents with product details at CMS Desk -> Content and mark the documents as products. Enter the product details. More details: Products
- 14.Make a testing order for each payment option.

Possible configurations

The E-commerce module allows you to manage products in two basic modes:

- standard mode - you manage the products in Kentico CMS. Each product is represented by a combination of document that contains product information displayed to the visitor and a product record that contains standard product information, such as product price, sizes, taxes, etc.

- custom product provider - you manage the products in an external system and publish them inside Kentico CMS-based web site. You can learn more on custom providers in chapter Developing custom providers.

6.2 Orders

The Orders can be managed at **Kentico CMS Desk -> Tools -> E- commerce -> Orders** of the ecommerce module.

General properties

- Order ID unique identifier of the order
- Date date and time when the order was placed
- Invoice number the assigned invoice number (it can be changed on Invoice tab)
- Status order processing status
- Customer customer who made this order
- Company address address of the company which made the order
- Order note notes added by customer or by store managers

Shipping

- Shipping option chosen shipping option
- Shipping address chosen shipping address
- Tracking number tracking number of the order

Billing

- Payment method chosen payment method
- Currency currency used in the invoice
- Billing address chosen billing address
- Payment result payment results as described in the Payment results chapter

Items

Here you can modify the order during its processing. Please note that to be able to additionally modify order item name and order item price **CMSUseCurrentSKUData** and **CMSEnableOrderItemEditing** keys in the web.config files have to be set accordingly. Please refer to the Web.config settings chapter for more information.

Invoice

Here you can re-generate or print the invoice and change the invoice number manually.

History

Here you can see the history of order processing.

6.3 Customers

You can manage customers at **Kentico CMS Desk -> Tools -> E- commerce -> Customers**. The customer profile can be created either manually in this administration interface or it can be created automatically when the customer registers during the purchase process.

You can create new customers here. While creating a new customer, you can choose to provide her with **User name** and **Password** and straight away and create user account for her.

General customer properties

- First name customer's first name
- Last name customer's last name
- **Company** company name (optional)
- Organization ID registration ID of the customer's company
- Tax registration ID tax registration ID of the customer's company
- E-mail customer's e-mail address
- Phone customer's phone number
- Fax customer's fax number
- Preferred currency the currency in which the prices are displayed when the customer signs in
- **Preferred payment method** customer's preferred payment option (automatically set based on her last purchase)

- **Preferred shipping option** - customer's preferred shipping option (automatically set based on her last purchase)

- Country/state - customer's main country and state

- **Enabled** - if you uncheck the box, the customer profile will not be listed in the customer list, while still being stored in the database for your records and to keep customer's purchase history.

- Discount level - discount level applied to the customer's orders

Addresses

Each customer can have several addresses for billing and shipping stored in her profile. Every address has the following properties:

- Personal or company name - name line in the address

- Address lines address line 1 and address line 2
- City city
- **ZIP code** zip/postal code
- Country country
- Phone number phone number

- **Enabled** - indicates if the address should be offered to the client. If you set it to disabled, it will no longer be displayed, but it will be kept in the database for your records and to keep customer's purchase history.

- Use as shipping address - indicates if the address should be offered to customer as a shipping address

- Use as billing address - indicates if the address should be offered to customer as a billing address

- Use as company address - indicates if the address should be offered to customer as a company address

Orders

- the list of orders made by this customer

Credit

The customer credit history.

The customer credit is stored in the default currency. If a payment is made in a currency different from default, the payment amount is converted to the default currency and the customer credit is decreased by this amount - a new credit event is created.

For information about enabling payments with the customer credit please refer to the Customer credit chapter.

The displayed total value of the customer credit is sum of all credit events.

Newsletters

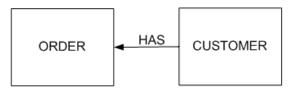
Here you can select newsletters to which a customer is subscribed.

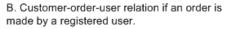
For more information about newsletters please refer to the **Newsletter module overview** chapter in **Kentico CMS Developer's Guide**.

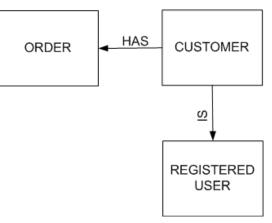
Login

Here you can manage user's account that she uses to sign in to your e-commerce site (if she is a registered user, not only an anonymous user)

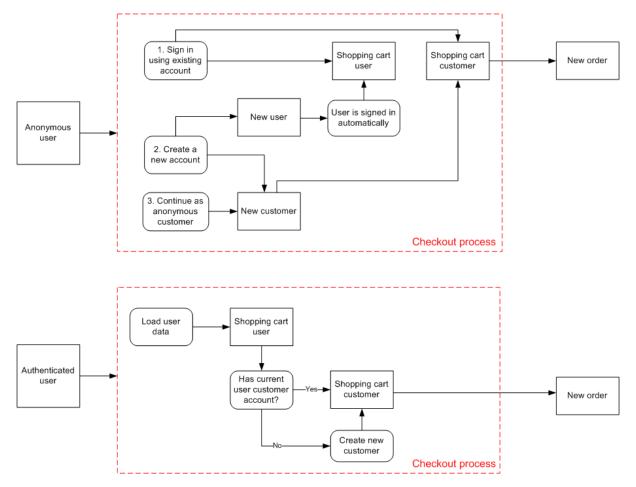
A. Customer-order relation if an order is made by an anonymous customer.







You can create and edit users at CMS Desk -> Administration -> Users.



The following diagram shows the checkout process for both an anonymous and authenticated user in greater detail.

6.4 Products

Kentico CMS allows you to integrate the e-commerce data with documents. You can mark any document as a product and define its product properties.

There are two ways how you can enter the products:

- 1. Go to CMS Desk -> Content -> Product, check the Mark document as product box and choose Create a new product.
- Go to CMS Desk -> Tools -> E-commerce -> Products and enter all your product details. Then go to CMS Desk -> Content -> Product, check the Mark document as product and select an existing product.

General tab

Every product has the following properties:

- Product name product name displayed on the web site and in the shopping cart
- Product number product number (serial number or SKU number) for your records
- Description product description used for special product listings
- Price product price in the main currency
- Enabled indicates if product can be added to the shopping cart
- Department the department that is responsible for this product
- Manufacturer the manufacturer of the product
- Supplier the supplier of the product
- Public status status of the product displayed to site visitors e.g. Available immediately

- **Internal status** - status of the product displayed only to the site owners - e.g. Products going off-sale. Invisible to the site visitors.

- Availability (days) - number of days required for processing the order (e.g. the order may require 1 day so that you get the product from the distributor)

- Product image URL URL of the product image
- Package weight weight in your chosen unit
- Package height height in your chosen unit
- Package width width in your chosen unit
- Package depth depth in your chosen unit
- Available items number of items available in stock

- Sell only if items are available - indicates if customers can purchase only quantity that is in stock (checked box)

Custom fields tab

Here you can see list of the custom fields available for all products. You can specify the custom fields at CMS Site Manager -> Development -> System tables -> Ecommerce - SKU.

Please note that the **Custom fields tab** is visible only if there are some custom fields defined.

Tax classes tab

You can specify **Tax classes** for every product - you can choose any number of taxes that apply to the given product.

Volume discounts

On the **Volume discounts** tab in the **Product properties** dialog, you can define discount that applies to the ordered product when the customer purchases specified amount of the product.

For every volume discount line, you need to enter:

- minimum amount number of ordered items from which the discount applies
- discount value relative or absolute discount for the given minimum amount

When the customer updates the number of ordered products, the discount is automatically calculated and the customer is displayed with the final price. For more details please refer to the Discounts overview chapter.

Options tab

Here you can specify option categories (e.g. size of clothes) - you can choose any number of categories that assign to the given product. Customer is asked to choose her product configuration before the product is added to the shopping cart.

For further information please refer to the Product options chapter.

Assigning product to document In Kentico CMS, products are defined separately from the documents. When you want to display a product on your web site, you firstly choose a document that will act as a container for the product and then you assign the given product to the chosen document. While creating document, you can also choose to create document and product at the same time and product will be assign to the given document automatically.		
The fact that products are defined separately enables them to be independent of the source of a specific web site. This allows you to use the same product on success the same product of the same		

6.5 **Product options**

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You can manage product options at **Kentico CMS Desk -> Tools -> E- commerce -> Product options**.

Here you can either create a new option category 💐 New option category or edit 💊 and delete 样 the existing one.

Every option category has following properties:

General

Category name - category name displayed to the customer
 Selection type - type of selection, a customer use to choose the product option
 Display price - if enabled, product option prices will be displayed next to product options
 Default option(s) product options which are selected by default before a customer chooses her own one(s)
 Description - the description of the category as it is visible to customers
 Default record text - the caption of the default option, which is added to the product options collection

Enabled - indicates if the category is enabled

Options

Here you can either add a new product option \bowtie <u>New product option</u> to the current option category or you can edit \searrow or delete \bowtie existing options or change their succession $\textcircled{}{}$ within the current option category.

Product options have the same properties as **Products** with the exception of the volume discounts which cannot be assigned (as well as discount coupon) to a product option.

On contrary with the product price, the product option price can be negative. The product option price is the amount that is either added to or subtracted from the given product price. The product option is sold as an addition to the given product, not as its replacement. If certain discount level applies to the given customer, this discount level applies for the chosen product option as well.

6.6 Manufacturers

The **Manufacturers** dialog at **Kentico CMS Desk -> Tools -> E- commerce -> Manufactures** allows you to manage the list of manufacturers who make the products you sell. This information is optional, so you do not need to supply it. You can use it for your internal records or you can display it on your web site (e.g. you can display a link to the manufacturer's web site where clients can find more details).

Every manufacturer has the following properties:

- Manufacturer display name manufacturer name
- Homepage URL of the internet home page of the manufacturer
- Enabled indicates if the given manufacturer can be used for newly created products

6.7 Suppliers

You can define your suppliers at **Kentico CMS Desk -> Tools -> E- commerce -> Suppliers**. This information is typically used only for your records. This information is optional and you do not need to enter it.

Every supplier has the following properties:

- Supplier display name name of the supplier
- Supplier e-mail supplier e-mail contact
- **Supplier phone** supplier phone contact
- Supplier fax supplier fax contact
- Enabled indicates if the supplier is active and can be used for newly added products

6.8 Discount coupons

You can define discount coupons at **Kentico CMS Desk -> Tools -> E- commerce -> Discount coupons**. The discount coupon is represented by a special code that is used by the customer on the Shopping Cart page.

Every discount coupon has the following properties:

- Discount coupon name - friendly name of the discount displayed to customers and store managers

- **Discount coupon code** - the coupon code that will be used by the customer during the purchase

- **Discount value** - you can choose between absolute and relative discount and you can enter the discount value in the box below

- Valid from, Valid to - time period when the discount can be applied

On the **Products** tab, you can choose which products the discount should be applied to or not applied to. Please note that you can assign a discount coupon only to the given product, not to its product options. **Discount coupons** cannot be defined for **Product options**.

For more details please refer to the Discounts overview chapter.

6.9 Discount levels

You can define discount levels that apply to all products at **Kentico CMS Desk -> Tools -> Ecommerce -> Discount levels**. Every customer can be assigned with a discount level. For example, you can assign all Gold Partners with 30% discount on all products they purchase on your web site.

The discount level can be defined on the **Discount levels** tab. A discount level has the following properties:

- Display name the discount level name displayed to the users
- Code name the discount level name used in the code
- Value percentage value of the discount

- Valid from/to - time period when the discount level is applied. If you leave both values empty, the discount is time-unlimited.

- Enabled - indicates if the discount level should be used

On the **Departments** tab, you can choose the departments on which the discount level can be applied.

Once you define the discount levels, you need to assign them to the customers in the **Customer properties** dialog, in the **Discount level** drop-down list.

For more details please refer to the Discounts overview chapter.

6.10 Reports

At **Kentico CMS Desk -> Tools -> E- commerce -> Reports** you can display, save and print following e-commerce statistics:

Numbers of orders per year - number of orders made on the web site in one year Numbers of orders per month - number of orders made on the web site in one month Number of orders per day - number of orders made on the web site in one day Sales per year - sales in one year in your default currency Sales per month - sales in one month in your default currency Sales per day - sales in one day in your default currency Inventory - the inventory list of all products defined in the **Products** tab Top 100 customers by volume of sales

For more information, please refer to the **Module Reporting** chapter in **Kentico CMS Developer's** guide.

6.11 Configuration

6.11.1 Store settings

Go to Kentico CMS Desk -> Tools -> E- commerce -> Configuration -> Store Settings and set the following values:

General tab

- **Default country** <choose your country or country where you sell most>
- Minimum amount for free shipping the minimum order value when the shipping is not charged
- Allow anonymous customers indicates if customers need to create a user account in your site so that they can make the purchase
- Use an extra company address indicates if the option of providing company address is available in the check out process
- Require company account information indicates if it is compulsory to provide company account information in the check out process
- Show Organization ID field indicates if organization ID field should be displayed
- Show Tax registration ID field indicates if organization ID field (e.g. VAT registration ID) should be displayed
- Main currency default currency use as base for calculation of exchange rates

After clicking the **Change** button next to main currency, a new dialog appears. In the dialog, you can select items which should be recalculate according to exchange rate to the new main currency.

🖉 Ecommerce - Change main currency Webpage Dialog		
No. Change main currency		
(Select new main currency)		
To currency exchange rate:		
Recalculate exchange rates		
Recalculate product prices		
Recalculate flat taxes		
Recalculate flat discount coupons		
Recalculate flat volume discounts		
Recalculate customers' credits		
Recalculate shipping options		
Recalculate values of the document types' fields that are used as a source for the product price		
Recalculate mimimal amount for free shipping		
OK Cancel		
http://localhost/KenticoCMS_ecommerce1/CMSDesk/Tools/Ecommerce/Configuration 😏 Local intranet		

Emails tab

- Send e-commerce e-mails from an e-mail address from which the e-mail notifications are sent
- Send e-commerce e-mails to an e-mail address (e.g. merchant's e-mail address) to which the email notifications are sent
- Send order notification indicates if notifications are sent after an order is finished and saved. The e-mail template E-commerce order notification to customer is used when sending notification to customer. The e-mail template E-commerce order notification to administrator is used when sending notification to administrator.
- Send payment notification indicates if a notification is sent after payment is completed. The email template E-commerce - Order payment notification to customer is used when sending notification to customer. The e-mail template E-commerce - Order payment notification to administrator is used when sending notification to administrator.

Checkout process tab

Here you can either create a new step \cancel{k} <u>New step</u> in the checkout process or you can edit \searrow or delete \cancel{k} existing steps or change their succession

For more information about purchase process please refer to the Customizing the purchase process chapter.

6.11.2 Departments

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Go to **Kentico CMS Desk** -> **Tools** -> **E- commerce** -> **Configuration** -> **Departments**. Department is used for organization of your product management efforts - you can specify users who can manage products in the given department. It means you can have a different product manager for e.g. books and for electronics departments.

Please note that the **departments are not the same as product categories** displayed to site visitors.

You can create either only single department and place all products in it or you can create separate departments if you have several product managers.

Every department has these properties:

- **Department display name** friendly name displayed to users
- Department code name code name used by developers in the code
- Default tax class for new products the tax class that is automatically assigned to the products created in the given department

In the Users tab, you can specify the users who can manage products in these departments.

6.11.3 Shipping options

You can manage shipping options at **Kentico CMS Desk -> Tools -> E- commerce -> Configuration** -> **Shipping options**. Each shipping option has the following properties on the **General** tab:

- Shipping option display name friendly name displayed to customers and store managers
- Shipping option name code name used by developers
- Shipping option charge amount charged for this shipping option (in the main currency)
- Enabled indicates if shipping option is offered to customers

On the **Payment methods** tab of the Shipping option properties dialog, you can choose which payment methods will be available for the given shipping option.

6.11.4 Payment methods

You can manage payment methods at **Kentico CMS Desk -> Tools** -> **E- commerce -> Configuration -> Payment methods**. Every payment method has the following properties:

- Payment method display name – Friendly name (localizable string or simple text) displayed to the users.

- Payment method code name – Unique identifier which must be unique within all of the site payment methods.

- Enabled – Indicates if payment method could be used for payment.

- **Payment gateway URL** - External payment gateway url or relative path to your document controlled by the Kentico CMS which represents your custom payment processor. It can be parameterized with data macros to evaluate the data fields of the order and related objects.

The following example shows how you can insert finished order ID and customer billing address state code to the payment url, however, you can get any value from the related objects. See **Kentico CMS Database Reference** for detailed column listing of the objects:

http://www.SomePaymentGateway.com?orderid={%Order.OrderId%}&state={
%BillingAddress.State.StateCode%}

{%Order.OrderID%}	Displays the value of specified order data column (COM_Order)
{%ShoppingCart.ShoppingCartID%}	Displays the value of specified shopping cart data column (COM_ShoppingCart)
{%OrderStatus.StatusID%}	Displays the value of specified order status data column (COM_OrderStatus)
{%BillingAddress.AddressID%}	Displays the value of specified billing address data column (COM_Address)
{%BillingAddress.Country.CountryID%}	Displays the value of specified billing address country data column (CMS_Country)
{%BillingAddress.State.StateID%}	Displays the value of specified billing address state data column (CMS_State)
{%ShippingAddress.AddressID%}	Displays the value of specified shipping address data column (COM_Address)
{%ShippingAddress.Country.CountryID %}	Displays the value of specified shipping address country data column (CMS_Country)
{%ShippingAddress.State.StateID%}	Displays the value of specified shipping address state data column (CMS_State)
{%CompanyAddress.AddressID%}	Displays the value of specified company address data column (COM_Address)
{%CompanyAddress.Country.CountryI D%}	Displays the value of specified company address country data column (CMS_Country)
{%CompanyAddress.State.StateID%}	Displays the value of specified company address state data column (CMS_State)
{%ShippingOption.ShippingOptionID%}	Displays the value of specified shipping option data column (COM_ShippingOption)
{%PaymentOption.PaymentOptionID%}	Displays the value of specified payment option data column (COM_PaymentOption)
{%Currency.CurrencyID%}	Displays the value of specified currency data column (COM_Currency)
{%Customer.CustomerID%}	Displays the value of specified customer data column (COM_Customer)
{%DiscountCoupon.DiscountCouponID %}	Displays the value of specified discount coupon data column (COM_DiscountCoupon)

- Payment gateway assembly name - Name of a library which includes your payment gateway class

inside.

- Payment gateway class name – Name of a class which represents your custom payment gateway processor.

- Order status when payment succeeds – Order status which is set to the existing order when its payment succeeds.

- Order status when payment fails – Order status which is set to the existing order when its payment fails.

Please note: the offered payment methods depend on the chosen <u>shipping option</u>. You need to specify this relationship when editing required shipping option. If there is no enabled shipping option all payment methods are offered.

6.11.5 Tax classes

You can manage tax classes at Kentico CMS Desk -> Tools -> E- commerce -> Configuration -> Tax classes.

Tax classes represent a customizable system that allows you to configure taxes paid for goods. You can specify different tax classes with different rates for each country. Then you apply these taxes to particular products.

Every tax class has the following properties:

- Tax class display name friendly name displayed to users
- Tax class code name code name used by developers in the code
- Zero tax if Tax ID is supplied indicates if the tax should be calculated as zero (0) if the customer enters the Tax ID. The Tax ID is only displayed during the purchase process if the Configuration -> Store Settings -> Show Tax registration ID field box is checked.

On the **Countries** and **States** tab, you can set the value for particular countries (the country is recognized based on the billing address). The tax value can be either percentage (by default) or it can be a flat fee. If both country and state tax are specified, only the state tax is used.

6.11.6 Currencies

The store may offer goods for prices in several currencies. The available currencies can be managed at Kentico CMS Desk -> Tools -> E- commerce -> Configuration -> Currencies.

How to configure currencies

1. Enter all currencies you will use and delete or disable (uncheck the box **Enabled**) the currencies that you do now want to use. You will need to enter the following properties:

- Currency display name the friendly name displayed to site visitors
- Currency code name the code name used by developers
- Currency code the official code of the currency used in exchange rates

- **Currency formatting string** - the format used to display amounts in the give currency - use {0} expression to insert the value into the formatting text

- **Significant digits** - the number of digits in the price that will be used in the total amount. The value will be rounded if the actual number of decimal digits is higher

- Enabled indicates if the currency should be displayed in the currency drop-down list
- 2. If applicable, set the new currency as main currency at **Configuration** -> **General**.

3. If you're using multiple currencies, please specify exchange rates at **Configuration -> Exchange** rates.

6.11.7 Exchange rates

You can configure the exchange rates between the main currency and the alternative currencies at **Kentico CMS Desk -> Tools -> E- commerce -> Configuration -> Exchange rates**. The exchange rates are organized into **Exchange tables** that specify the complete exchange rate table for a given time period. You can define a new exchange table e.g. for every day.

Every exchange table has the following properties:

- Table display name friendly name of the exchange table e.g. "January 15, 2007 January 20, 2007"
- Valid from, Valid to time period the exchange table applies to
- Exchange rates here you can enter "how much you have to pay for a single unit of the given currency"

6.11.8 Order status

You can configure various order states at **Kentico CMS Desk -> Tools -> E- commerce -> Configuration -> Order status**. This can be e.g. New -> In progress -> Closed or Canceled. You can also specify their flow using the up/down arrows.

Every status has the following properties:

- Order status display name friendly name displayed to store managers
- Order status code name code name used by developers
- Order status color the color used to highlight the orders in given status in the Orders dialog.
- Enabled indicates whether this status should be used for new orders
- Send notification indicates whether the e-mail notifications are sent to the customer and administrator when status of the existing order is set to the given status. The e-mail template "E-commerce order status notification to customer" is used when sending notification to customer. The e-mail template "E-commerce order status notification to administrator" is used when sending notification to administrator.

Please note: This setting is independent of the Send order notification setting at Kentico CMS Desk -> Tools -> E- commerce -> Configuration -> Store settings -> Emails. Furthermore, the Send e-commerce e-mails from and Send e-commerce e-mails to text boxes at CMSDesk -> Tools -> E-commerce -> Configuration -> Store settings -> Emails need to have specified values so that you would be able to receive and send notifications.

6.11.9 Public status

You can configure various states of the product displayed on the public site at **Kentico CMS Desk -> Tools -> E- commerce -> Configuration -> Public status**. This can be e.g. "Available", "Accepting pre-orders" or "Not available".

Every status has the following states:

- Public status display name friendly name displayed to store managers
- Public status code name code name used by developers
- Enabled indicates if this status should be used for new orders

This can be e.g. "Available", "Accepting pre-orders" or "Not available".

6.11.10 Internal status

You can configure various states of the product used by store managers to differentiate products at **Kentico CMS Desk -> Tools -> E- commerce -> Configuration -> Internal status**. This can be e.g. "Featured product", "New!" or "Sale". You can then use this information on your web site to display the products e.g. in the "New products" box on your home page.

Every status has the following states:

- Internal status display name friendly name displayed to store managers
- Internal status code name code name used by developers
- Enabled indicates if this status should be used for new orders

This can be e.g. "Featured product", "New!" or "Sale". You can then use this information on your web site to display the products e.g. in the **Featured products** list on your home page.

6.11.11 Invoice

You can customize the invoice (or receipt) design at Kentico CMS Desk -> Tools -> E- commerce -> Configuration -> Invoice dialog. You can edit the HTML code representing your invoice here and use special expressions to insert dynamic parts of the invoice.

For example, you can use the **##BILLINGADDRESS##** expression to insert the customer's billing address into the invoice.

You can find a complete list of available dynamic expressions at the bottom of the dialog.

Please note: In Kentico CMS offers you the capability of splitting an invoice into several pages for printing. Should you experience difficulties with the printed design of an invoice in Internet Explorer, try to print it using the Firefox web browser instead.

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Imvoloe number: 2 Bapplier Company address	Order date:			
				4/8/2008
Company address	Customer			
	Development Solt 1020 Blueberry Ln. Tucson 85754 USA, Arizons			
Payment option Cash on	n delivery			
Product name	Units	Price/unit	Tax	Subto
Configurable PC	1	0.00	0.00	0.
Windows Visits Home Premium Op (SN) States and SNA	:	218.00	0.00	218
- CD RW Samaung Black SATA - INTEL Core 2 Quad Q8500 2.40GHz	1	42.00	0.00	42.
n/IDIA GEFORCE 88000316 512MB	1	440.00	0.00	440
- SAMSUNG 500GB SATA	i	139.00	0.00	139
- DDR2 1024MB 667MHZ	1	30.00	0.00	30
- ACER 22"	1	480.00	0.00	480.
- AUDIGY SE belk	1	30.00	0.00	30
- Repro 5.1	1	80.00 90.00	0.00	80 90
- Printer - Scenner	1	90.00 69.00	0.00	90 60
Configurable PC		0.00	0.00	0
- Windows XP Home	i	191.00	0.00	191
- CD RW Samsung Black SATA	1	42.00	0.00	42
- INTEL Core 2 Quad Q8500 2,40GHz	1	220.00	0.00	220
- nVIDIA GEFORCE 8800GT6 512MB - SAMSUNG 500GB SATA	1	440.00 139.00	0.00	440. 139
- GAMOUNG 500GB GATA - DDR2 1034MB 657MHZ	1	139.00	0.00	139.
- ADER 22"	1	480.00	0.00	480
- AUDIGY SE bulk	i	30.00	0.00	30
- Repro 5.1	1	80.00	0.00	80.
- Printer	1	90.00	0.00	90.
- Scenner	1	69.00	0.00	
Configurable PC - Windows Viste Business	2 2	0.00 270.00	0.00	0. 540.
- CD RW Samaing Black SATA	2	42.00	0.00	84
- INTEL Core 2 Quad Q6500 2,40GHz	2	220.00	0.00	440
- nVIDIA GEFORCE 8800GTS 512MB	2	440.00	0.00	880.
- SAMSUNG 500GB SATA	2	139.00	0.00	278
- DDR2 1024MB 657MHZ - ADER 22*	2	30.00 460.00	0.00	60. 960
- ADER 22" - AUDIGY SE bulk	2	480.00	0.00	960.
	2	80.00	0.00	160
- Rapro 5.1	2	80.00	0.00	160
Product name - Peter - Scanner	Units 2 2	Pricelunit 90.00 69.00	Tax 0.00 0.00	Subio 180. 138.
Configurable PC - RedHat Unux	1	0.00	0.00	0. 50.
- RedHet Unux - CD RW Semiung Black SATA	1	50.00	0.00	50. 42.
- NTEL Core 2 Qued Q6600 2,40GHz	1	220.00	0.00	220.
- nVIDIA GEFORCE 8800GTS 512MB	1	440.00	0.00	440.
- SAMSUNG 500GB SATA	1	139.00	0.00	139
- DDR2 1024MB 667MHZ	1	30.00	0.00	30
- ACER 22"	1	480.00	0.00	480
- AUDIGY SE buik	1	30.00	0.00	30
- Repro 5.1	1	80.00	0.00	80.
	1	69.00	0.00	69.
- Scanner				
- Scanner		Tete	i shipo ing	

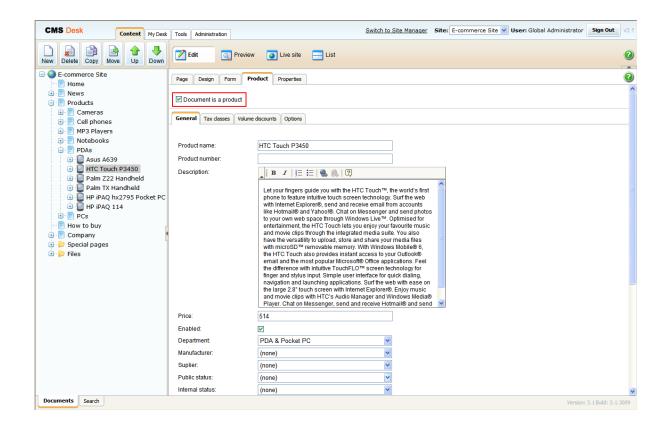
6.12 Enabling the e-commerce module

You may need to enable the e-commerce product before you start using it. Go to **Kentico CMS Site Manager** -> **Settings** -> **E-commerce**, select your web site in the drop-down list and check the box "**Product**" tab enabled. Click **Save**.

It will ensure that documents can be marked as products in the Kentico CMS Desk -> Content section.

CMS Desk Ontent My Desk	C Tools Administration	Switch to Site Manager Site: E-commerce Site 💟 User: Global Administrator Sign (Dut v3.1
New Delete Copy Move Up Down	Edit 💽 Preview 💽 Live site 🚍 List		2
E-commerce Site	Products		
Home	Spell check		
+ F Products			^
How to buy	Name:		
Special pages	Battery:		
🖲 🔁 Files	Display type:		
	Resolution:	\neg	
	RAM (MB):		
	Processor (MHz):		
	Weight(g):		
	Operating system:		
	Publish from:		
	Publish to:		
	Create a new product		
			~
Documents Search		Version: 3.1 Build	: 3.1.3009

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6.13 Security configuration

You can configure the following permissions for the E-commerce module in the CMS Site Manager -> Administration -> Permissions -> <select the "Module: E-commerce"> permission matrix:

- Display module indicates if the module is visible in the UI.
- Modify configuration modify (create/update/delete) access to the Configuration section.
- **Modify data** modify (create/update/delete) access to the rest of the E-commerce module dialogs, including the Content/Product dialog.
- Read configuration read-only access to the Configuration section.
- Read data read-only access to the rest of the E-commerce module dialogs, including the Content/ Product dialog.

Moreover, you can assign store managers to particular departments, so that they cannot accidentally modify products they are not responsible for.

You can also use document-level permissions if you need to restrict access to modifications of product documents in the content tree.

CMS Site Manager Sit	es Administration Se	tings Develop	ment Licen	ses Support				Switch to CMS Desk		
- Administration - Administration - Avatars - Administration	Я Permission	No Permissions								
ad words	Site:	Site: Corporate Site								
Banned IPs	Permission type:	Modules	lodules V							
	Permission matrix:	E-commerce			~					
······································			Display module	Modify configuration	Modify data	Read configuration	Read data			
Smart search	Authenticated user	s								
💂 System	CMS Community A	lministrators								
🔒 Users	CMS Designers									
🐫 🗿 Web farm	CMS Desk Adminis	trators			✓					
	CMS Editors									
	CMS Readers									
	Everyone									
	Gold Partners									
	Live ID users									
	Not authenticated u	isers								
	Silver Partners									

6.14 Countries and states

Various dialogs through-out the e-commerce module and the check-out process display a list of countries and states. You can manage the list of available countries and states at **Site Manager -> Development -> Countries**. These settings need to be pre-defined by some of the global administrators.

CMS Site Manager Sites	Administration Settings Development Licenses Support	Switch to CMS Desk	User: Global Administrator	Sign Out v3.1
Development SSS stylesheets Countries Cultures Document types E-mail templates	Countries New country Country name LIKE			0
	Show			
Page layouts	Actions Country name			
Page templates	💊 😹 Afghanistan			
System tables	💊 🗶 Albania			
Turitures	💊 💥 Algeria			
Web part containers	💊 🐰 American Samoa			
🔌 Web parts	💊 💥 Andorra			
Web templates Workflows	💊 💥 Angola			
	💊 🗶 Anguilla			
	Natarctica			
	💊 💥 Antigua and Barbuda			
	N 💥 Argentina			
	S X Armenia			
	N 💥 Aruba			
	S X Australia			
	💊 💥 Austria			
	💊 💥 Azerbaijan			
	💊 💥 Bahamas			
	💊 👗 Bahrain			
	💊 👗 Bangladesh			
	💊 👗 Barbados			
	💊 👗 Belarus			
	💊 👗 Belgium			
	💊 🐰 Belize			~
				×

6.15 E-commerce and multi-site configuration

When you run multiple sites from a single Kentico CMS interface, it's important to consider that some e-commerce settings are shared by all web sites. Thus, it's recommended that you use the multi-site support only for a single company that manages multiple e-commerce stores with shared settings.

The following settings are **shared** among web sites:

- orders
- customers
- products
- product options
- manufacturers
- suppliers
- discounts
- departments
- tax classes
- currencies
- exchange rates
- order status
- public status

- internal status

The following settings are site-specific:

- store settings
- shipping options
- payment methods
- invoice template

6.16 Mapping document fields to product properties

You can map document fields into the product fields. Then, when the document is modified, the values are automatically updated in its product properties.

Please note that you cannot map product fields to document fields. The mapping doesn't work the other way round.

You can map the fields in the **Site Manager -> Development -> Document Types -> <select document type> -> E-commerce** dialog.

You can also choose to automatically mark the document as a product when a new document of the given type is created. In this case, you need to check the box **Automatically create product when a new document is created** and choose the **default department** to which the product will be assigned. In this case, you need to map at least the **Product name** and **Product price** source fields in the drop-down lists above.

CMS Site Manager Sites	Administration Settings	Development	Licenses	Support	Buy			Switch to CMS Desk	User: Global Administrator	Sign Out) v3.1
Development CSS stylesheets	📚 Document Ty	pe Properties									2
Countries	Document Types + Pro	duct - Camera									
e Document types	General Fields Form	Transformations	Queries 0	child types	Sites	E-commerce					-
E-mail templates											
Inline controls	Select document fields	s that will be used	as a source	for the spe	cified p	roduct propertie	95:				
Modules	Product name source:	Ca	meraName			~	•				
Page layouts	Product image source	: (no	ne)			~	•				
- 🦂 Page templates	Package weight sourc		ne)			~					
Relationship names	Package height source	×				~					
System tables		×	ne)								
UI cultures	Package width source		ne)			~					
Web parts	Package depth source	e: (no	ne)			~					
Web templates	Product price source:	Product price source: (none)			~						
workflows	Product description so	ource: (no	ne)			~	•				
	Automatically create	e product when a	new docume	nt is create	d						
	Default deparment for	new product: Ca	meras			~	•				
			OK								

6.17 Sitemanager settings

E-commerce

You can set following e-commerce module properties at Site Manager -> Settings -> E-commerce:

- "Product" tab enabled Please see the Enabling the e-commerce module chapter for more details.
- Default product image URL Default product image URL (virtual path). This image is used when
 product image is not specified.
- My account URL My account page URL (virtual path)
- Shopping cart URL Shopping cart page URL (virtual path)
- Wishlist URL Wishlist page URL (virtual path)

Payment Gateway - Authorize.NET

At Site Manager -> Settings -> Payment Gateway - Authorize.NET you can set following properties:

- API Login
- Test mode
- Transaction key

For more information please see the Authorize.NET configuration chapter.

Payment Gateway - PayPal

At Site Manager -> Settings -> Payment Gateway - PayPal you can set following properties:

- Business
- Cancel Return Url
- Notify Url
- Return Url

For more information please see the PayPal configuration chapter.

6.18 Web.config settings

In the **web.config** file, you can set appropriate keys in the following location to modify functionality of the e-commerce module:

```
<configuration>
<appSettings>
<add key="CMSUseCustomEcommerceProviders" value="false" />
.
.
.
</appSettings>
</configuration>
```

The following keys can be set:

CMSUseCurrentSKUData	If set to false (default value), the name and price of the existing order item are used while editing order items. If set to true , the current product name and product price of a product are used while editing order items.					
CMSEnableOrderItemEditing	<complex-block></complex-block>					
CMSUseMetaFileForProductI mage	If set to true (default value), user is asked to choose a product image from the file system of her computer. The product image is uploaded to server and saved as a metafile of the given product (product image document of type cms.file is not created). The path to the given metafile is saved as a product image path (SKUImagePath). If set to false , user is asked to choose a document of type cms. file to become a product image. The path to the selected document is saved as a product image path (SKUImagePath).					
CMSUseCustomEcommercePr oviders	For more information please see the Using custom providers chapter,					
CMSShoppingCartExpirationP eriod	Specify the number of days after which a shopping cart is considered to be old and is erased with the Deleting old shopping carts task.					

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Custom web.config settings

You can add your own settings (key and its value) into the **web.config** file.To work with these settings, use methods of the **CMS.SettingsProvider.SettingsKeyProvider** class.

The following example shows how to get the value (type of double) of the key named MyCustomKey.

```
double value = CMS.SettingsProvider.SettingsKeyProvider.GetDoubleValue("MyCustomKey");
```

6.19 Localization settings

KenticoCMS supports localization of its features through localization expressions.

In the e-commerce module, the following features can be localized meaning that you can set their value either as plain text or as the macro expression.

- Product display name
- Product option display name
- Product option category display name
- Payment method display name
- · Shipping option display name
- Currency display name
- Tax class display name
- Discount coupon display name
- Discount level display name
- · Order status display name
- Public status display name
- · Country display name
- State display name

Following example should suggest you how to supply a localized value into the document type transformation code or into your own aspx page.

1. Creating localized expressions

At **CMS Site Manager -> Development -> UI cultures** you can create a new string for the given cultures.

CMS Site Manager Sites	Administration Settings Development Licenses Support	Switch to CMS Desk User: Global Administrator Sign Out v3.1
Development	Ul culture properties	0
Countries	Ul cultures + English	
	Strings General	
E-mail templates	Strings ► New string	0
Inline controls		
Modules	Key: CashOnDeliveryMacro	
- 🤤 Page templates	Text: Cash on delivery	
Relationship names	Custom string: OK	
UI cultures	UK	
Web part containers		
Web templates		
····· WOIKIIOWS		

2. Displaying localized expressions

For instance, if you have defined new string with the **Key** attribute *CashOnDeliveryMacro* and **Text** attribute *Cash on delivery* for the English culture and *Comptant à la livraison* for the french culture, using localization method **CMS.GlobalHelper.ResHelper.LocalizeString("{\$key\$}")** will result in displaying **Cash on delivery** to the English-speaking person and **Comptant à la livraison** to the French-speaking person.

🥥 E	E-commerc	e									
Orders	Customers	Products	Product options	Manufacturers	Suppliers	Discount coupons	Discount levels	Reports	Configuration		
Store	settings	🧇 F	Payment met	hod proper	ties						0
	tments ng options	Payment method									
	ng options	Bourne	ent method displa	w. 50000	(Casab Os	DeliveryMacro\$}					
Tax d	asses		ent method code	-	cashOnD						
Currer		Enable	ed:		~						
	Exchange rates Payment gateway settings Order status Payment gateway URL :										
	status		ent gateway asse								
Intern	al status	· ·	ent gateway class								
111000	-		status when payr status when payr			rrent order status) rrent order status)		*			
					ОК						

For further information on the localization macros please refer to the **Localization Expressions** and **Appendix A - Macro expressions** chapters in **Kentico CMS Developer's Guide**.

6.20 Customizing invoice and e-mail templates

For your invoice and e-mail templates, you can use a whole range of pre-defined and data macros as you can find them at **CMSDesk -> Tools -> Ecommerce -> Configuration -> Invoice**.

Pre-defined macros

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Should you want to replace the current pre-defined macros, you need to enable the usage of the custom e-commerce provider (see Using custom providers for more details) and replace the appropriate method from CustomOrderInfoProvider.

Масто	Description	Method
##BILLINGADDRESS##	Displays customer address	<pre>string GetAddress(int addressId)</pre>
##COMPANYADDRESS##	Displays company address	<pre>string GetAddress(int addressId)</pre>
##SHIPPINGADDRESS##	Displays shipping address	<pre>string GetAddress(int addressId)</pre>
##PAYMENTOPTION##	Displays payment method	string GetPaymentOption(int paymentId)
##SHIPPINGOPTION##	Displays shipping option	<pre>string GetShippingOption(int shippingId)</pre>
##INVOICENUMBER##	Displays invoice number	string GetInvoiceNumber(object order)
##ORDERDATE##	Displays order date	string GetOrderDate(object order)
##ORDERNOTE##	Displays order note	string GetOrderNote(object order)
##PRODUCTLIST##	Displays list of ordered products	<pre>string GetProductList(DataTable dt, object currency, bool renderDiscount)</pre>
##TOTALSHIPPING##	Displays total shipping for order	<pre>string GetTotalShipping(double value, object currency)</pre>
##TOTALPRICE##	Displays total price for order	<pre>string GetTotalPrice(double value, object currency)</pre>
##TAXRECAPITULATION##	Displays list of all taxes used in order	<pre>string GetTaxRecapitulation(DataTable dt, object currency)</pre>
##TAXREGISTRATIONID##	Displays customer tax registration ID	<pre>string GetTaxRegistrationID(object customerObj)</pre>
##ORGANIZATIONID##	Displays customer organization ID	<pre>string GetOrganizationID(object customerObj)</pre>

Data macros

You can use data macros to evaluate the data fields of the order and related objects. See 'Kentico CMS Database Reference' for detailed column listing of the objects.

Following example displays code of the customer billing address state, however, you can get any value from the related objects: {%BillingAddress.StateCode%}

Масго	Description
{%Order.OrderID%}	Displays the value of specified order data column (COM_Order)
{%ShoppingCart.ShoppingCartID%}	Displays the value of specified shopping cart data column (COM_ShoppingCart)
{%OrderStatus.StatusID%}	Displays the value of specified order status data column (COM_OrderStatus)
{%BillingAddress.AddressID%}	Displays the value of specified billing address data column (COM_Address)
{%BillingAddress.Country.CountryID%}	Displays the value of specified billing address country data column (CMS_Country)
{%BillingAddress.State.StateID%}	Displays the value of specified billing address state data column (CMS_State)
{%ShippingAddress.AddressID%}	Displays the value of specified shipping address data column (COM_Address)
{%ShippingAddress.Country.CountryID%}	Displays the value of specified shipping address country data column (CMS_Country)
{%ShippingAddress.State.StateID%}	Displays the value of specified shipping address state data column (CMS_State)
{%CompanyAddress.AddressID%}	Displays the value of specified company address data column (COM_Address)
{%CompanyAddress.Country.CountryID%}	Displays the value of specified company address country data column (CMS_Country)
{%CompanyAddress.State.StateID%}	Displays the value of specified company address state data column (CMS_State)
{%ShippingOption.ShippingOptionID%}	Displays the value of specified shipping option data column (COM_ShippingOption)
{%PaymentOption.PaymentOptionID%}	Displays the value of specified payment option data column (COM_PaymentOption)
{%Currency.CurrencyID%}	Displays the value of specified currency data column (COM_Currency)
{%Customer.CustomerID%}	Displays the value of specified customer data column (COM_Customer)
{%DiscountCoupon.DiscountCouponID%}	Displays the value of specified discount coupon data column (COM_DiscountCoupon)

Custom macros

Following example shows how you can display customer total credit and current time in invoice or emails, however you can define your own custom macros. Please refer to the **Appendix A - Macro expressions** chapter in **Kentico CMS Developer's Guide** fore more details.

```
using System;
using CMS.GlobalHelper;
public static string ResolveCustomMacro(MacroResolver sender, string expression, out bool match)
    {
        match = false;
        string result = expression;
        // Custom macro examples
        switch (expression.ToLower())
            // Display customer total credit, macro in template: {#totalcredit#}
            case "totalcredit":
                match = true;
                // Get shopping cart object from resolver
                CMS.Ecommerce.ShoppingCartInfo cartObj = sender.SourceObject as
CMS.Ecommerce.ShoppingCartInfo;
                if ((cartObj != null) && (cartObj.ShoppingCartCustomerID > 0))
                {
                     // Get customer total credit in default currency
                    double totalCredit =
\texttt{CMS.Ecommerce.CreditEventInfoProvider.GetCustomerTotalCredit(cartObj.ShoppingCartCustomerID);}
                    CMS.Ecommerce.CurrencyInfo currentCurrency = null;
                    double currentRate = 1.0;
                    // Use shopping cart currency and its exchange rate
                    if (cartObj.CurrencyInfoObj != null)
                    {
                        currentCurrency = cartObj.CurrencyInfoObj;
                        currentRate = cartObj.ExchangeRate;
                        // Apply exchange rate
                        totalCredit =
CMS.Ecommerce.ExchangeTableInfoProvider.ApplyExchangeRate(totalCredit, currentRate);
                    // Use default currency
                    else
                    {
                        currentCurrency = CMS.Ecommerce.CurrencyInfoProvider.GetMainCurrency();
                    // Round value
commerce.CurrencyInfoProvider.RoundTo(totalCredit, currentCurrency);
                    // Return formatted value
                    result =
CMS.Ecommerce.CurrencyInfoProvider.GetFormatedPrice(totalCredit, currentCurrency);
                break;
            // Display current date and time, macro in template: {#currenttime#}
            case "currenttime":
                result = DateTime.Now.ToString();
                break;
        return result;
    }
```

E-mail templates

You can manage e-mail templates at CMS Site Manager -> Development -> E-mail templates.

Development		
CSS stylesheets	🔁 E-mail Templates	
 Countries 		
Cultures	Site: (global)	
E-mail templates	🐼 New Template	
Form controls		
Inline controls	Actions Template name	
Modules	Sa 💥 📬 Blog new comment notification	
Page templates	💊 💥 🖣 Booking event invitation	
📲 Relationship names	S X a Document approved	
System tables	S X Document archived	
UI cultures	S X a Document published	
Web parts	S & Document ready for approval	
Web templates	N X G Document rejected	
	S & E-commerce - Order notification to administrator	
	S & E-commerce - Order notification to customer	
	N X a E-commerce - Order payment notification to administrator	
	N X 0 E-commerce - Order payment notification to customer	
	K E-commerce - Order status notification to administrator	
	K E-commerce - Order status notification to customer	
	S 2 Grundeter order states nonneetien to casternet	
	S & Forum moderator notification	
	S & Forum new post	
	N X hessaging notification email	
	New registration	
	New registration approval	
	Na 🚗 📲 registration approval	

Customizing e-mail subject

Beside e-mail templates, you can use the very same macros in subject of an e-mail. All you have to do is change the appropriate localization strings as specified in the table bellow. You can change the given localization strings at **<your web project folder>/CMSResources/CMS.<given UI culture code >.resx** (for default culture it's **CMS.resx**)

E-mail template	E-mail subject localization string
order notification to administrator	ordernotification.administratorsubject
order notification to customer	ordernotification.customersubject
order payment notification to administrator	orderpaymentnotification.administratorsubject
order payment notification to customer	orderpaymentnotification.customersubject
order status notification to administrator	orderstatusnotification.administratorsubject
order status notification to customer	orderstatusnotification.customersubject

Following example shows how to customize subject of the order notifications which are sent to administrator:

1. Go to <your web project folder>/CMSResources/ and open the CMS.resx file.

2. Find the ordernotification.administratorsubject key and change its value to Order with ID {%Order.OrderID%} - {%OrderStatus.StatusDisplayName%} so that the given part of code look in the following way.

This will include information about order ID and order status in the subject of an e-mail send to the administrator.

Default settings of the e-mail subjects

When new order is made or items of the existing one are changed:

E-mail subject string	Default value
ordernotification.administratorsubject	Order: {%Order.OrderInvoiceNumber%}
ordernotification.customersubject	Your order: {%Order.OrderInvoiceNumber%}

When payment is received:

E-mail subject string	Default value
orderpaymentnotification.administratorsubject	Order {%Order.OrderInvoiceNumber%}: Payment received
orderpaymentnotification.customersubject	Your order {%Order.OrderInvoiceNumber%}: Payment received

When status of the existing order is changed:

E-mail subject string	Default value
orderstatusnotification.administratorsubject	Order {%Order.OrderInvoiceNumber%}: {%OrderStatus.StatusDisplayName%}
orderstatusnotification.customersubject	Your order {%Order.OrderInvoiceNumber%}: {%OrderStatus.StatusDisplayName%}

6.21 Using product inventory

Kentico CMS allows you to manage your product inventory at **CMS Desk -> Tools -> E-commerce -> Products**. Here, you can quickly check if a product is available and how many items do you have in stock.

CMS Desk	Content	My Desk	Tools	Administration				Switch 1	to Site Manager	Site: E	-commerce Sit	e 💙 User: Global Administrator	Sign Out	
		🥥 E-o	comme	rce										
📲 Booking system		Orders	Customers Products Product options Manufacturers Suppliers Discount coupons Discount levels Reports Configuration											
Content staging	ng				1 roduce options	Than and can cro	Suppliers	biscount coupons	Discourrenevela	Reports	comgaration			
File import		Products												
Sorums		🗐 Ne	w product											
- S Newsletter														
Polls		Produc	t name:											
R Web Analytics		Produc	t number:											
		Depart		(all my depa	irtments)		*							
		Public		(all)	intinents)		*							
			I status:	(all)			~							
		Sites:	oluluo.	(all)			~							
				Show										
				0.00										
			ns Produ			number Prod	uct price	Available items I	Public status In	nternal sta	atus I	Enabled		
		S 🕺		spire 3105WLM	Ai	941		2				True		
		S 🕺		onfigurator		899		2				True		
		S 🕺		onfigurator		899		0				True		
		N 🕺	Acer E	xtensa 7620G		99		0			1	True		
		N 🕺	Apple i			499		0	SI	how as fea	tured product	True		
				MacBook Air		2094		2			-	True		
-		N 🕺	Asus A			470		1				True		
		N 26		3U AP059C		999		1				True		
		N 🕺		Digital Rebel)		597		3	SI	how as fea	tured product			
		S 🕺		PowerShot A7	20 IS	195		100			-	True		
-		N 🕺		aq Presario		659		0				True		
		N 20		urable PC		0		0				True		
	4	N 2	Creativ			150		0	SI	how as fea	tured product			
	4	N 20		e Zen Stone		50		0				True		
				n M6 Cult		145		0				True		
				on M7 Cult		215		0	SI	how as fea	tured product			
			Force F			749		0				True		
				nfigurator		999		0				True		
			HP iPA			389		0				True		
				Q hx2795 Pock	ket PC	415		0				True		
				vilion dv6680		1290		0	SI	how as fea	tured product			
				vilion DV9730U		1099		0				True		
				vilion PC a6140	U	1399		0				True		
				ouch P3450		514		-				True		
			iPod C	INSSIC		250		1				True		
		12										г	05	
												Items per page:	25 🚩	

There are two ways you can handle products in your inventory:

1.) Sell a product only if they are some available items in stock at CMS Desk -> Tools -> E-commerce -> Products.

2.) Always sell a product no matter if there are any available items in stock.

You can distinguish between these two by checking the **Sell only if items are available** checkbox either at **CMS Desk -> Tools -> E-commerce -> Products -> <edit given product> -> General** or on the **Product** tab of the product chosen in the content tree.

	tent My Desk Tools Administration Switch to Site Manager Site: E-commerce Site V User: Global Administration	or Sign Out
ools 	E-commerce	
📲 Booking system	Orders Customers Products Product options Manufacturers Suppliers Discount coupons Discount levels Reports Configuration	
E-commerce	S Product properties	
📑 File import Sa Forums	Products Apple MacBook Air	
• Polls	General Tax dasses Volume discounts Options	-
Reporting	Price: 2094	
	Enabled:	
	Department:	
	Manufacturer: Apple	
	Suplier: (none)	
	Public status: (none)	
	Internal status: (none)	
	Availability (days): 0	
	Product image URL: Select Clear	
	Package	
	Package weight 1.36	
	Package height:	
	Package width:	
	Package depth:	
	Inventory	
	Available items: 2	
	Sell only if items are available:	
	ОК	

1. Sell product only if there are available items in stock

For enabling this option, you have to enter the number of available items into the **Available items** text box and check the **Sell only if items are available** checkbox. An order is accepted only if the number of ordered items is no greater than the number of available items.

Available items:	10
Sell only if items are available:	\checkmark
	ОК

The sufficiency of the available items is checked every time a user does one of the following:

- Add product to the shopping cart
- Click the Update button in the shopping cart
- Click the **Checkou**t button in the shopping cart
- Click the Order now button in the Order Preview

If you want to buy a product with product options, the chosen product and product options have to be enabled and there has to be sufficient number of available items of the given product with the given product option. Otherwise the error message appears.

Step 1 of 6 - Add some products to the shopping cart												
		•	2	•	2	•	. ,ø	•				
Shoppir	ng cart											
										Currency	U.S. E	Dollar 🔽
Remove	Product name						Units	Unit pr	ice	Тах		Subtotal
	Acer Aspire 31 The product is The quantity w which is 2.	current	y not avail				2	941.	.00	0.00	۹	1882.00
					lf you h	nave a	coupon cod	e, please en	ter it here:			
If you have a coupon code, please enter it here: Total shippi Total price:										orice:	\$ 8.00 \$ 1890.00 pdate	
Contin	ue shopping										C	heck out

Please note that you can check the **Sell only if items are available** checkbox for product options as well. You can set check the **Sell only if items are available** checkbox and enter the number of available items for product options at **CMS Desk -> Tools -> E-commerce -> Products Options ->** <edit option category> -> Options -> <edit product options>.

CMS Desk	Content	My Desk	Tools	Administration				Switch to	Site Manager	Site: E	-commerce S	ite 🗸	User: Global Admin	istrator	Sign Out) v3.1
BizForms		🥥 E-0	commer	ce												
		Orders	Customers	Products	Product options	Manufacturers	Suppliers	Discount coupons	Discount levels	Reports	Configuration	1				
E-commerce		🧊 O	ption ca	tegory pr	operties											2
🤃 File import 🥸 Forums		Option (categories	 Cell phon 	es accessories											
S Newsletter		General	Options	1												
		Produ	ct options	Car charge	r											2
···· 🚮 Web Analytics		Gene	ral Tax da	10000												
		Price		13303	5											^
		Enat														
		Dep	artment		Phones			~								
		Man	ufacturer:		(none)			~								
		Supl	ier:		(none)			~								
	4		ic status:		(none)			~								
			nal status:		(none)			~								
			ability (days		0											
		Prod	luct image	URL:			Select	Clear								
		Pack	-													
			age weigh													
			kage height kage width:													
			age depth:													
		Avail	able items:		2				7							
				s are availabl												
						_			_							
					ОК											

If the checkbox is checked, there has to be the sufficient quantity of the given product option in stock so that an order is accepted. Otherwise the error message appears.

Step 1 of 6	6 - Add some products to the shopping cart			
	🚅 + Z + 🎼 +	ه, ۲	•	
Shoppi	ng cart			
				Currency: U.S. Dollar 💌
Remove	Product name	Units	Unit price	Tax Subtotal
	Motorola V3 Razr	10	130.00	0.00 🔍 1300.00
	- Car charger The product is currently not available in required quantity The maximum available quantity is 2.	. 10	5.00	0.00 🔍 50.00
	If you have	a coupon cod	le, please enter it here:	:
				Total shipping: \$ 0.00
				Total price: \$1350.00
Contir	nue shopping			Check out

Please note that the very same check is made anytime a user edit the already existing order. When an item is removed from the order, it is added back to stocked items.

2. Always sell product

When the **Sell only if items available** checkbox is unchecked, an order is processed disregarding the number of available items of the given product or product option. Therefore, a customer can order more items that it is readily available in stock. Should that happen, the number of available items will be negative. Therefore, you'll know exactly how many items do you need to order to meet demands.

Please note: You can check the number of available items in stock at CMSDesk -> Tools -> Ecommerce -> Reports -> Inventory as well.

MS Desk Con	tent My Desk Tools Administration		Switch to Site Manager Site: E-commerce Site 🕑 User: Global Administra	tor Sign Out							
ols BizForms	E-commerce										
Booking system		t options Manufacturers Suppliers Discount coupons Discount levels Reports Configuration									
E-commerce	Reports			2							
Second Parameters Newsletter Polls Reporting Web Analytics	@ Number of orders per mo @ Number of orders per day & Sales per year & Sales per month & Sales per day										
		Inventory									
		SKU name	Product number Department name Available items								
		1024MB DDR2	Hardware 0								
		2048MB DDR2	Hardware 0								
		512MB DDR2	Hardware -11								
		Abit AW9D - Intel 975X	Hardware 2								
		ACER 22"	Hardware -1								
		Acer Aspire 3105WLMi	Hardware 2								
		Acer configurator	Hardware 2								
		Acer configurator	Hardware 0								
		Acer Extensa 7620G	Hardware 0								
		ActionTech Gladiator CK-18B blue	Hardware 4								
		AMD ATHLON 64 LE-1620	Hardware 0								
		AMD ATHLON 64 X2 4200+	Hardware 0								
		AMD ATHLON 64 X2 4800+	Hardware 0								
		AMD ATHLON 64 X2 5000+	Cameras 0								
		AMD ATHLON 64 X2 5600+	Hardware 0								
		AMD ATHLON 64 X2 6400+	Cameras 0								
		AMD Sempron 1800Mhz	Hardware 0								
		AMD Sempron 64 LE-1200	Hardware 0								

6.22 Discounts overview

In the Kentico CMS E-commerce module, you can define three different types of discounts for your customers:

- **Discount coupons -** discount from the price of the specified products. For more details see the Discount coupons chapter.
- **Discount levels** discount that is assigned to the customer for all her purchases. For more details see the Discount levels chapter.
- Volume discount discount assigned to the product that applies when the customer purchases specified amount of the given product. For more details see the Products chapter.

In the following examples, we purchase five units of **Apple MacBook Air** with a total price of \$10470 without any discount. Each example demonstrates where you can specify the given type of discount and how it affects the total price of the purchase.

Step 1 of (6 - Add some pi	oducts	to the sho	pping ca	art								
		•	8	⇒	8	\$, ,,	•		•			
Shoppi	ng cart												
										Cu	rrency: U.S	6. Dollar	*
Remove	Product name	;					Units	Unit	t price		Тах	Sub	ototal
	Apple MacBoo	ok Air					5	20	94.00		0.00 🔍	1047	0.00
					lf you h	nave a	coupon cod	e, please	enter it h	ere:			
											otal shippin otal price:	g: \$ \$ 1047 Update	0.00 7 0.00
Contir	nue shopping											Check of	out

Discount coupons

You can create a new discount coupon or edit existing ones at CMS Desk -> Tools -> E-commerce -> Discount coupons.

CMS Desk Content	t My Desk Tools Administration Switch to Site Manager Site: E-commerce Site 💙 User: Global Administrator S													
BizForms	Secommerce													
Booking system	Orders Customers Products Product options Manufacturers Suppliers Discount coupons Discount levels Reports Configuration													
E-commerce	💀 New discount coupon	2												
	Discount coupons New discount coupon													
····• Polls ···· With Reporting	Discount coupon name: new discount coupon													
Web Analytics	Discount coupon code: A45XCV Discount value:													
	100													
	Valid from: 4/16/2008 14:33:48													
	Valid to:													
	OK													

While making purchase, a customer is required to enter a coupon code into the given text box to make use of it. The given discount is subtracted from the product price.

Step 1 of 6	6 - Add some pr	oducts (to the shop	pping ca	irt								
	Ż	•	2	\$	2	•	, ø	•		•			
Shoppi	ng cart												
										Cu	rrency: U.S	. Dollar	~
Remove	Product name				Units		Unit price	Unit d	liscount		Тах	Sub	total
	Apple MacBoo	ok Air			5		2094.00		100.00		0.00 🔍	997	0.00
					lf you h	ave a	coupon code	e, pleas	e enter it he	ere: A	45XCV		
											Total shippi Total price:	-	0.00
Contin	ue shopping											Check of	out

Discount levels

You can set up a new discount level or edit existing ones at CMS Desk -> Tools -> E-commerce -> Discount levels.

CMS Desk Content	My Desk Tools Administration Switch to Site Manager Site: E-commerce Site V User: Global Administrator Sign Out	3.1
	E-commerce	A
📲 Booking system 🖓 Content staging	Orders Customers Products Product options Manufacturers Suppliers Discount coupons Discount levels Reports Configuration	•
E-commerce	& New discount level	
	Discount levels New discount level	
🥑 Polls 🔛 Reporting	Display name: VIP customers	
Web Analytics	Code name: VIPcustomers Value: 10 %	
	Valid from: 4/16/2008 10:55:01	
	Valid to:	
	Enabled:	
	OK	

After creating a new discount level, you have to assign it to those users who you want to take advantage of it.

CMS Desk	Content	My Desk	Tools Ad	dministration	1			Switch 1	o Site Manager	Site: E	commerce Si	te 🔽 Use	er: Global Adm	ninistrator	Sign Out) v3.1
Tools		🥥 E-(commerce	•												
📰 BizForms 💀 💀		-	C 1)(- ·				(- <u>-</u>					
- 崎 Content staging	,				Product options	Manufacturers	Suppliers	Discount coupons	Discount levels	Reports	Configuration					
E-commerce		Se C	ustomer p	properti	es											(
S Forums		Custom	ners • Devel	opment S	oft.											
Sewsletter		Genera	al Addresses	Orders	Credit News	etters Login										
																T
Web Analytics		Firstr	name:		David											
		Lastr	name:		Simons											
		Comp	pany:		Development Se	oft.										
		Organ	nization ID:													
		Taxre	egistration ID:													
		E-ma	il:													
		Phon	e:	[
		Fax		[
		Prefe	rred currency:		(none)			~								
		Prefe	rred payment					~								
		Prefe	rred shipping	option:	(none)			~								
		Coun	try/state:		USA			~								
					Alaska			~								
		Enab	led:	[~											
		Disco	ount level	[VIP customers			~								
					ОК	1										
					UN											

Before making a purchase, a user has to sign in to her account so that the assigned discount level is automatically take into account while calculating the unit and total price.

Step 1 of 6	- Add some pr	oducts	to the sho	oping ca	irt									
	Ż	•	8	•	2	•		•		•		•		
Shoppir	ng cart													
										Cu	rrency: L	J.S. Doll	ar 🖄	*
Remove	Product name				Units		Unit price	Unit dis	scount		Тах		Subtota	al
	Apple MacBoo	ok Air			5		2094.00	2	09.40		0.00 🤍	6	9423.00	D
	,				lf you ha	ave a	coupon code	e, please	enter it he	ere:				
											Total shij	oping:	\$ 0.0	0
										-	Total pric	:e: \$	9423.0	0
												Upda	ate	
Contin	ue shopping											Che	ck out	

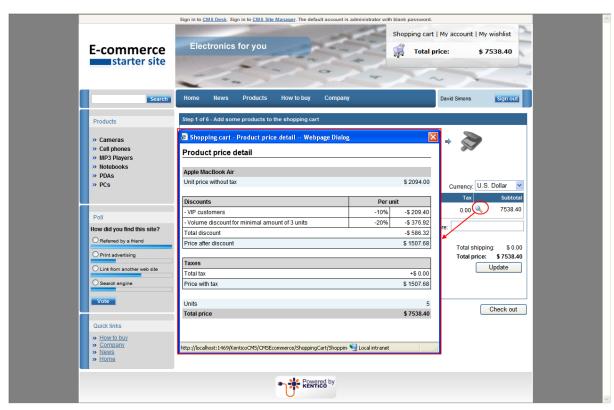
Volume discounts

You can define volume discounts at CMS Desk -> Content -> <choose product> -> Product -> Volume discounts.

CMS Desk My Desk	Tools Administration	Switch to Site Manager	Site: E-commerce Site 💟 User: Global Administrator	Sign Out v3.1
New Delete Copy Move Up Down	Edit OPreview OLive site List			0
	Page Design Form Product Properties			
Documents Search	8		Version:	3.1 Build: 3.1.3028

On condition a user adds to the **shopping cart** sufficient amount of units of the product with the assigned volume discount, the given discount level is automatically taken into account and its subtracted from the unit price.

Step 1 of 6 -	Add some pro	oducts t	o the shop	oping ca	rt								
		•	8	•	2	•		•		•			
Shopping	g cart												
										Cu	rrency: U.S	S. Dollar	*
Remove F	Product name				Units		Unit price	Unit o	liscount		Тах	Sul	btotal
	Apple MacBoo	<u>k Air</u>			5		2094.00	\langle	418.80		0.00 🔍	837	76.00
					lf you h	ave a	coupon code	e, pleas	e enter it h	ere:			
											Total shipp	ing: 🖇	6 0.00
											Total price		76.00
												Update	
Continue	e shopping											Check	out



You can combine all the discount types. While combining the discount coupon and the discount level, though, only higher discount applies.

For more details about how are discounts calculated see Figure B: Discount calculation.

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6.23 Deleting old shopping carts

The deletion of old shopping carts can be done automatically with the pre-defined task.

By default, all the shopping carts older than 30 days are considered old and therefore are erased when running the **Deleting old shopping carts** task. You can change the period of time after which the shopping cart expires by modifying the **CMSShoppingCartExpirationPeriod** key in the **web.config** file. See the Web.config settings chapter for more details.

This task erase not only old shopping carts, but anonymous customers with no order as well. This anonymous customer with no order appears when an anonymous user adds an item into the shopping cart. She is then required to enter her name and e-mail and she becomes a customer. If this anonymous user for whatever reason doesn't get through all steps of the checkout process, she remains in the system as an anonymous customer with no order.

You can schedule the deletion of old shopping carts task by setting the **Scheduler** at **CMS Site Manager -> Administration -> Scheduled tasks**.

CMS Site Manager Sites	Administration Setting	s Development Licenses Support Buy	Switch to CMS Desk	User: Global Administrator	Sign Out	v3.1
- Administration	Scheduled tasks > Del					2
••• •	Scheduled tasks > Del Task display name: Task name: Task assembly name: Task class name: Task interval:	lete old shopping carts Delete old shopping carts Ecommerce DeleteOldShoppingCarts CMS.Ecommerce CMS.Ecommerce.ShoppingCartCleaner Period: Day ♥ Start time: 1/30/2007 11:50:00 ♥ Now Every: 1 Day Days: ♥ Monday ♥ Saturday ♥ Tuesday ♥ Sunday ♥ Wednesday ♥ Friday				
	Task data: Task enabled: Delete task after last rur Server name:	С М ОК				

For more information please refer to the Scheduler chapter in Kentico CMS Developer's guide.

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7 Purchase process and payment gateways

7.1 Purchase process overview

The standard purchase (checkout) process looks like this:

- 1. The user browses the web site and adds the products to the **shopping cart**. She can modify the number of items in the cart. She can also insert a discount coupon.
- 2. The user clicks the **Checkout** button. She can choose from three options:
 - Sign in using an existing account if she already has a user account
 - Create a new account

- Continue as anonymous customer - this option doesn't require the user to create a user account, but she needs to enter her details with every purchase. You can enable/disable this option at CMS Desk -> Tools -> E-commerce -> Configuration -> Store Settings -> Allow anonymous customers.

- 3. The user enters/updates customer data, including first name, last name, e-mail and company name.
- 4. The customer enters billing/shipping address or chooses from the list of previously used addresses. The use can also choose to enter an additional company headquarters address that can be enabled at CMS Desk -> Tools -> E-commerce -> Configuration -> Store Settings -> Use an extra company address.
- 5. The user chooses the payment and shipping method.
- 6. The user previews the order.
- 7. The user completes the order or continues with on-line payment. The order status is set to New. The order notification e-mail is sent to store owner and to the customer if it's configured at CMS Desk -> Tools -> E-commerce -> Configuration -> Store Settings dialog.
- The payment is processed by the payment gateway. If the payment succeeds/fails, the order status is set to values specified at CMS Desk -> Tools -> E-commerce -> Configuration -> Payment methods -> <select some payment method> -> Order status when payment succeeds/fails. A payment notification e-mail is sent to store owner and to the customer if it's configured in CMS Desk -> Tools -> E-commerce -> Configuration -> Store Settings dialog and if the payment is successfully completed.
- 9. The user is redirected to the page configured in the properties of the **Shopping cart** web part, in the **Default URL after purchase** value.

Shopping cart content

The shopping cart content is stored in the database and it's bound to the current user name. If the user is anonymous, the cart ID is stored in a browser cookie. It ensures that the cart content is preserved even if the session is lost during application restart. You can find more details on how the shopping cart is retrieved in Figure D - Shopping cart retrieval.

When the checkout process is completed (regardless if the payment succeeds or fails), a new order is created and the shopping cart content is moved to the order. The cart is empty then.

The cart content is accessible in your code using the **ShoppingCartInfoObj** class in the checkout process steps.

7.2 Customizing the purchase process

The purchase process can be enhanced with your custom steps or you can remove some steps. This can be done at CMS Desk -> Tools -> E-commerce -> Configuration -> Store settings -> Checkout process.

Caption The step caption in the checkout process. Code name The name of the site used in the code. Name of the file used in the checkout process header. The image must be stored in folder Image file name ~\App Themes\<stylesheet name>\Images\ShoppingCart. Virtual path to the ASCX control representing the dialog in the given step. Example: **Control path** ~/CMSEcommerce/ShoppingCart/ ShoppingCartOrderAddresses.ascx Indicates if this step should be used in the checkout Show on the live site process on the live site. (see below) Indicates if this step should be used in the checkout Show in Customer section process when creating a new order for the given customer. (see below) Indicates if this step should be used in the checkout Show in Order section process for a new order created from the administration interface. (see below) Indicates if this step should be used in the checkout Show in Order items section process when editing items of an existing order. (see below)

For each step, you can specify the following values:

See chapter Developing custom dialogs for the checkout process for more details on development of custom steps.

Types of the checkout process

There are four different types of checkout process:

- Checkout process 1 New order on the live site
- Checkout process 2 New order from section CMSDesk -> Tools -> E-commerce -> Customers/(some customer) -> Orders.
- Checkout process 3 New order from section CMSDesk -> Tools -> E-commerce -> Orders.
- Checkout process 4 Editing existing order from section CMSDesk -> Tools -> E-commerce -> Orders -> (some order) -> Items.

Below, you can find the screenshots of these types:

Checkout process 1 - New order on the live site

Elec	tronics	for you	2	N.	AXX +	Shopping cart		My wishlist \$ 510.00	1 · 1 ·
Home	News	Products	How to buy	Company				Sign In	
Step 1 of	6 - Add some	e products to	the shopping ca	rt					
		} →	2 +	₽		•	+	>	
Shoppi	ng cart								
							Currency:	U.S. Dollar	*
Remove	Product na	me			Units	Unit price	Tax	Subtot	al
	Nikon D40				1	490.00	0.00	490.0	0
	- Green				1	20.00	0.00	20.0	0
				If you have	a coupon coo	le, please enter it	there:	1	5
								l shipping: \$0.0 I price: \$510.0 Update	
Contin	ue shopping							Check out	

<u>Checkout process 2 - New order from section CMSDesk -> Tools -> E-commerce -> Customers</u> -> (some customer) -> Orders

Customer properties Customer Kentico General Addresse Orders Credit Login Customer Kentico Ciders New order Step 1 of 5 - Select billing and shipping address Billing address: (new) Name (company or personal): Address lines: City: City: Cit	E-commerce						
Customers > Customer Kentico General Addesses Orders Credit Login Addesses New order Step 1 of 5 - Select billing and shipping address Billing address: Billing address: City: Cit	Orders Customers Products Ma	anufacturers Supp	liers Discount coupons	Discount levels	Reports	Configuration	
General Addresse Order Credit Login	😹 Customer properties						
Step 1 of 5 - Select billing and shipping address Billing address Billing address: Image: Im	Customers + Customer Kentico						
Orders > New order Step 1 of 5 - Select billing and shipping address Billing address Billing address: Image: Company or personal): Address lines: Image: City: ZIP: Country: USA Country: Alaska Phone number: Image: My shipping address is different from the billing address. Image: My company address is different from the billing address	General Addresses Orders Cre	dit Login					
Step 1 of 5 - Select billing and shipping address Billing address: Billing address:: Name (company or personal): Address lines: City: ZIP: Country: USA Alaska Phone number: My shipping address is different from the billing address. My company address is different from the billing address.	🌉 New order						0
Billing address: (new) Name (company or personal): Address lines: City: ZIP: USA Country: USA Alaska Phone number: My shipping address is different from the billing address. My company address is different from the billing address.	Orders + New order						
Billing address: (new) Name (company or personal): Address lines: City: ZIP: USA Country: USA Alaska Phone number: My shipping address is different from the billing address. My company address is different from the billing address.							
Billing address: (new) Name (company or personal): Address lines: City: ZIP: County: USA Alaska Phone number: My shipping address is different from the billing address. My company address is different from the billing address.		ipping address					
Name (company or personal): Address lines: City: ZIP: Country: USA Phone number: My shipping address is different from the billing address. My company address is different from the billing address		Innuð					
Address lines: City: ZIP: Country: USA VSA Phone number: My shipping address is different from the billing address. My company address is different from the billing address							
City: ZIP: Country: USA Country: Alaska Phone number: My shipping address is different from the billing address. My company address is different from the billing address							
ZIP: Country: USA Alaska Phone number: My shipping address is different from the billing address. My company address is different from the billing address	Address lines.						
Country: USA Alaska Ala	City:						
Country: Alaska Phone number: My shipping address is different from the billing address. My company address is different from the billing address	ZIP:						
Alaska Image: Compare the compared of the compar		USA		~			
My shipping address is different from the billing address. My company address is different from the billing address	Country:	Alaska		~			
My company address is different from the billing address	Phone number:						
	My shipping address is diffe	erent from the billir	ng address.				
	My company address is diff	erent from the billir	ng address				
Back			-				
	Back						Next

Checkout process 3 - New order from section CMSDesk -> Orders

E-co	ommerce	e							
Prs	Customers	Products	Manufacturers	Suppliers	Discount coupons	Discount levels	Reports	Configuration	
	costomers	riodocto	Fighter december 3	Suppliers	biscouric couports	Discourt inters	Reports	comgardoon	
Ne Ne	w order								
ders	 New order 	er							
ep 1 o	f 6 - Select	t custome	1						
usto	mer								
									Search
Custo	mer detail	or its part:							Search
									Next

<u>Checkout process 4 - Editing existing order from section CMSDesk -> Tools -> E-commerce -></u> <u>Orders -> (some order) -> Items.</u>

ders	Custome	ers Products	Manufacturers	Suppliers	Discount coupons	Discount levels	Reports	Configuratio					
		ers Products	Manuracturers	Suppliers	Discounc coupons	Discouncieveis	Reports	Conrigurado	'n				
ders	▶ 553												
neral	Shippin	g Biling It	ems Invoice	History									
Sten	1 of 2 - A	dd some prod	lucts to the sho	pping cart									
		-											
Sh	opping o	cart									_		
	Add iten	n									Currency: U	.S. Dollar	~
R	emove	Product name	•						Units	Unit price	Tax	Sub	tota
		HP iPAQ 114							1	249.00	0.00	249.00 <u>D</u>	etail
										, please enter it he			
								you nave a	coupon coue	, please enter it ne	iie.		
											Total s	hipping: \$	8.00
											Total p		
											. ocar p		_
											10101	Update	
											(Update	-
											(Update	_
											(Update	

7.3 Developing custom dialogs for the checkout process

Creating a custom checkout process step

- 1. Create new web user control (*.ascx) and place your own form controls into it.
- 2. Go to its code behind and set control class to inherit from

CMS.EcommerceProvider.ShoppingCartStep.

3. There are several methods you can override to reach the required functionality:

- IsValid() – Validates current step custom data and returns validation result. True – all step data is correct and can be processed, False – some step data is not correct or missing and cannot be processed. In this case appropriate error message should be displayed. By default, it returns True.

- **ProcessStep()** – Processes current step information (updates shopping cart data) and returns result of this action. True – shopping cart data was updated successfully and customer can be moved to the next checkout process step, False – shopping cart update failed and customer cannot be moved to the next step. In this case appropriate error message should be displayed. By default, it returns True.

- ButtonBackClickAction() – Defines action which is run after the Back button is clicked. By default, the parent shopping cart control method ButtonBackClickAction() is called which moves customer one step backward in the checkout process.

- ButtonNextClickAction() – Defines action which is run after the "Next button" is clicked. By default, the parent shopping cart control method ButtonNextClickAction() is called which moves customer one step forward in the checkout process when the current step data is valid and processed successfully.

- 4. There are several properties you should use to get or set required information:
 - ShoppingCartControl parent shopping cart control the step belongs to
 - ShoppingCartInfoObj shopping cart object which stores all data during the checkout process
 - CheckoutProcessStep checkout process step information
- 5. The step control is created and can be registered as your custom checkout process step.

If the control represents checkout process steps in different checkout process types and these steps differ from each other only a little, you can create one control and specify a different behavior depending on the checkout process type as follows:

[C#]

```
using System;
using CMS.EcommerceProvider;
using CMS.GlobalHelper;
switch (this.ShoppingCartControl.CheckoutProcessType)
    case CheckoutProcessEnum.LiveSite:
        // Here comes the code which will be run only
        // when it is a checkout process on the live site
        break;
    case CheckoutProcessEnum.CMSDeskOrder:
        // Here comes the code which will be run only
        \ensuremath{{\prime}}\xspace // when it is a checkout process in the section
CMSDesk/Tools/E-commerce/Orders
        break;
    default:
        // Here comes the code which will be run in all other cases
        break;
}
```

Example 1 - My step

The following example shows a simple checkout process step definition. It displays the total price and an editable field to insert a customer comment. After the **Next** button is clicked, the editable field is checked for emptiness. If it is not empty the customer comment is saved and shopping cart data is updated. Otherwise, an appropriate error message is displayed. If the customer is a member of role "VipCustomers", an extra step with an additional form for VIP customers is loaded (MyVipStep.ascx). The **Back** button action is not overridden.

[MyStep.ascx]

[MyStep.ascx.cs]

```
using System;
using System.Data;
using System.Configuration;
using System.Collections;
using System.Web;
using System.Web.Security;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Web.UI.HtmlControls;
using CMS.GlobalHelper;
using CMS.Ecommerce;
using CMS.EcommerceProvider;
public partial class MyStep : ShoppingCartStep
            protected void Page_Load(object sender, EventArgs e)
                         // Initialize labels
                        lblTotalPrice.Text = ResHelper.GetString("MyStep.TotalPrice");
                        iblComment.Text = ResHelper.GetString("MyStep.Comment");
                         // Display rounded and formatted total price
                       lblTotalPriceValue.Text
{\tt CurrencyInfoProvider.GetFormatedPrice(ShoppingCartInfoObj.RoundedTotalPrice, ShoppingCartInfoObj.RoundedTotalPrice, ShoppingCartIn
ShoppingCartInfoObj.CurrencyInfoObj);
                        if (!this.ShoppingCartControl.IsCurrentStepPostBack)
                       {
                                    // Load customer comment
                                   txtComment.Text = this.ShoppingCartInfoObj.ShoppingCartCustomData["CustomerComment"];
                       }
            }
            /// Validates current step data.
            /// </summary>
/// <returns></returns></returns>
            public override bool IsValid()
                       // Check customer comment for emptiness
```

```
if (txtComment.Text.Trim() == "")
        {
             // Display error message
            lblError.Text = ResHelper.GetString("MyStep.Error.CommentMissing");
lblError.Visible = true;
            // Data are not correct - customer comment missing
            return false;
        }
        else
        {
            // Data are correct
            return true;
        }
    }
    /// <summary>
    /// Process current step data
    /// </summary>
/// <returns></returns>
    public override bool ProcessStep()
         // Update shopping cart with customer comment
        this.ShoppingCartInfoObj.ShoppingCartCustomData["CustomerComment"] =
        txtComment.Text.Trim();
        try
        {
            // Update shopping cart in database
            ShoppingCartInfoProvider.SetShoppingCartInfo(this.ShoppingCartInfoObj);
            \ensuremath{{\prime}}\xspace // Current step data were processed and saved succesfully
            return true;
        }
        catch
            // Display error message
lblError.Text = ResHelper.GetString("MyStep.Error.ShoppingCartUpdate");
            lblError.Visible = true;
            // Current step data update failed
            return false;
        }
    }
    /// <summary>
    /// Action after the "Next button" is clicked
   public override void ButtonNextClickAction()
        // If customer is registered and is a member of role "VipCustomers"
if ((this.ShoppingCartInfoObj.UserInfoObj != null)
            && (this.ShoppingCartInfoObj.UserInfoObj.IsInRole("VipCustomers",
 this.ShoppingCartInfoObj.SiteName)))
        {
            if (IsValid() && ProcessStep())
            {
                 try
                 {
                     // Load extra step for VIP customers which is not included
     // in standard checkout process definition
// Note: Current step index is not increased
                }
                catch {
                     // Error while loading extra step control -> Do standard action
                     base.ButtonNextClickAction();
                 }
            }
        else
             // Do standard action (validate step data, process step data, load next step)
            base.ButtonNextClickAction();
        }
    }
```

}

My VIP step

This is an external checkout process step which is not included in standard checkout process definition. It is loaded only when the current customer is a member of role "VipCustomers", however, you will need to use your own condition for loading your external steps. There is no data validation (Vip customer comment can be empty). Neither "Back button action" nor "Next button action" is overridden so it means the standard methods are called after the **Back** button and **Next** button are clicked.

[MyVipStep.ascx]

```
<%@ Control Language="C#" AutoEventWireup="true" CodeFile="MyVipStep.ascx.cs" Inherits="MyVipStep" %>
<asp:Label ID="lblError" runat="server" EnableViewState="false" Visible="false"></asp:Label>
<asp:Label ID="lblComment" runat="server" />
<asp:TextBox ID="txtComment" runat="server" TextMode="MultiLine" Rows="3" />
```

[MyVipStep.ascx.cs]

```
using System;
using System.Data;
using System.Configuration;
using System.Collections;
using System.Web;
using System.Web.Security;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Web.UI.HtmlControls;
using CMS.GlobalHelper;
using CMS.Ecommerce;
using CMS.EcommerceProvider;
public partial class CMSEcommerce_TestVipCustomers : ShoppingCartStep
    protected void Page_Load(object sender, EventArgs e)
         // Initialize label
        lblComment.Text = ResHelper.GetString("MyVipStep.Comment");
        if (!this.ShoppingCartControl.IsCurrentStepPostBack)
        {
            // Load VIP customer extra comment
            txtComment.Text =
Convert.ToString(this.ShoppingCartInfoObj.ShoppingCartCustomData["VipComment"]);
        }
    }
    /// Process current step data
    /// </summary>
/// <returns></returns>
    public override bool ProcessStep()
          Update shopping cart with VIP customer extra comment
        this.ShoppingCartInfoObj.ShoppingCartCustomData["VipComment"] = txtComment.Text.Trim();
        try
            // Update shopping cart in database
            ShoppingCartInfoProvider.SetShoppingCartInfo(this.ShoppingCartInfoObj);
```

```
// Current step data were processed and saved succesfully
return true;
}
catch
{
    // Display error message
    lblError.Text = ResHelper.GetString("MyStep.Error.ShoppingCartUpdate");
    lblError.Visible = true;
    // Current step data update failed
    return false;
}
```



Important notes on step order

Notice that data of all steps (including Kentico CMS standard shopping cart steps) are always processed by themselves, not by the parent shopping cart control. It means if you reorder standard checkout process steps you can experience a strange behavior because of missing information or omitting some important action.

For example if you move step "Order preview" in the standard checkout process definition for the live site before steps "Select billing and shipping address" and "Select payment and shipping methods" some order preview data will be missing (billing and shipping addresses, payment method and shipping option) because they were not entered yet. But even worse is that entered data of the following two steps ("Select billing and shipping address", "Select payment and shipping methods") will not be saved.

This happens because the order is saved after the "Next button" of the step "Order preview" is clicked and these two steps include completely different actions after their "Next buttons" are clicked.

7.4 Payment gateways

Once the customer enters appropriate information, you can redirect her to an on-line payment gateway. You can choose from the following options:

- No on-line payment the customer is only displayed with some "Thank you" page.
- **Customer credit** the customer can pay using her credit. The credit must be entered in the customer details by the store owner. This option is useful for customer loyalty programs. For further information please refer to the Customer credit chapter.
- Authorize.NET the customer pays using her card. See Authorize.NET configuration for more details.
- PayPal the customer pays using her card or PayPal account. See PayPal configuration for more details.
- **Custom payment gateway** you can integrate some other payment gateway using your code. See Developing custom payment gateways for more details.

7.5 Authorize.NET configuration

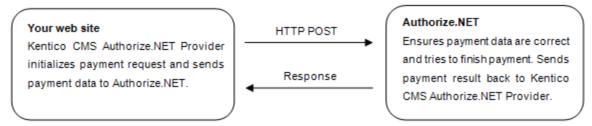
Authorize.NET is one of the most popular gateway providers. It uses plain HTTPS POST operations against its gateway server.

What do I need?

- 1. Kentico CMS 3.0 or higher with built in Authorize.NET support.
- 2. Internet Merchant Account A type of bank account that allows a business to accept internet credit card payments (the card is not physically presented to the merchant).
- 3. **Payment Gateway Account** A secure internet bridge between your web site and the credit card processing networks.

See Authorize.NET Getting Started Guide at <u>http://www.authorize.net/files/ecommerceguide.pdf</u> for more details.

How does it work?



Authorize.NET settings in Kentico CMS 3.1 or higher

Before you can offer customers to use Authorize.NET payment gateway you will need to do some necessary settings:

- 1. Go to the section CMSSiteManager -> Settings -> Payment Gateways Authorize.NET
- Enter API Login (API Login ID for the payment gateway account) and Transaction key (Transaction key obtained from the Merchant Interface) to identify your payments.
- Turn off **Test Mode** of the Authorize.NET payment gateway. Gateway behavior depends on both test mode settings: in CMSSiteManager and in Authorize.NET Merchant Interface. See table below for more details about test mode settings:

Kentico CMS	Merchant Interface	Transaction processed as
ON	ON	test transaction
OFF	ON	test transaction
ON	OFF	test transaction
OFF	OFF	live transaction

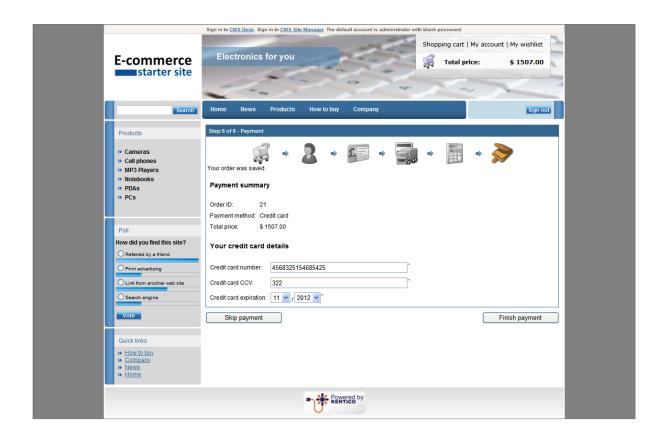
4. Ensure that Authorize.NET payment method is registered and enabled.

5. Check Authorize.NET payment method payment gateway settings:

- Payment gateway url: https://secure.authorize.net/gateway/transact.dll
 - Payment gateway assembly name: CMS.EcommerceProvider
- Payment gateway class name: CMS.EcommerceProvider.CMSAuthorizeNetProvider

Please note: If you want your transaction to be processed as a test transaction turn on the Test Mode and use *https://test.authorize.net/gateway/transact.dll* as your payment gateway url.

While using the Authorize.NET payment method, a customer is required to fill her credit card information in the last step of the checkout process to finish payment. After the payment is finished the order payment result is updated.



7.6 PayPal configuration

What do I need?

- 1. Kentico CMS 3.0 or higher with built in PayPal support.
- PayPal account, see <u>https://www.paypal.com/us/cgi-bin/webscr?cmd=_registration-run</u> for more details.

PayPal settings in Kentico CMS 3.1 or higher

Before you can offer customers to use PayPal payment gateway you will need to do some necessary settings:

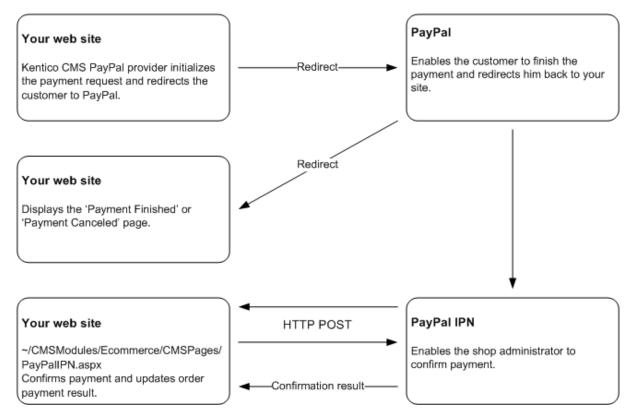
- 1. Go to the section CMSSiteManager -> Settings -> Payment Gateways PayPal
- Enter Business (E-mail address for merchant's PayPal account) to identify your payments. Other settings are optional:
 - **Notify Url**: The URL to which PayPal posts information about the transaction, see *PayPal IPN* for more details. If set overrides settings in PayPal merchant's interface.
 - **Cancel Return Url**: The URL to which the buyer's browser is redirected if payment is cancelled; for example, a URL on your website that displays a "Payment Canceled" page. Browser is redirected to a PayPal web page by default.
 - Return Url: The URL to which the buyer's browser is redirected after completing the payment; for example, a URL on your site that displays a "Thank you for your payment" page. Buyer is redirected to a PayPal web page by default.
- 3. Ensure that PayPal payment method is registered and enabled.
- 4. Check PayPal payment method payment gateway settings:
 - Payment gateway url: https://www.paypal.com/cgi-bin/webscr
 Payment gateway assembly pame: CMS Ecommerce Provider
 - Payment gateway assembly name: CMS.EcommerceProvider

Payment gateway class name: CMS.EcommerceProvider.CMSPayPalProvider

Please note:

- If you want your transaction to be processed as test transaction use https://www.sandbox.paypal.com/cgi-bin/webscr as your payment gateway url and sign up for PayPal SandBox testing environment, see <u>https://www.paypal.com/IntegrationCenter/ic_sandbox.html</u> for more details.
- The price is always rounded to two decimal places, otherwise the PayPal payment gateway wouldn't allow the payment.

How does it work?

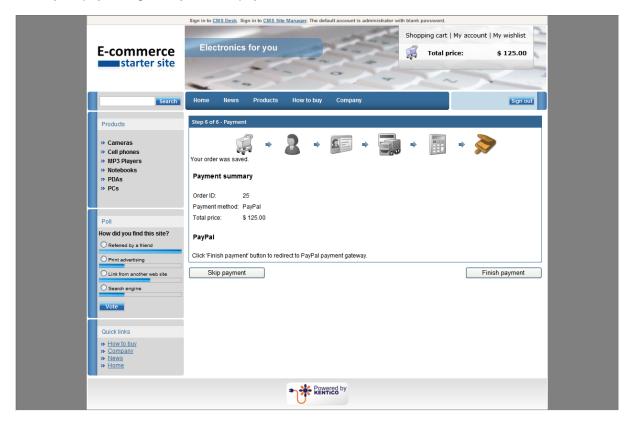


IPN - Instant Payment Notification

It's easy to spoof the return URL you sent to PayPal since it's visible on the query string. Therefore a user could simply type the Confirmation Url in directly and you should not confirm the order at this point. You can manually check for orders on the PayPal site or wait for PayPal's confirmation e-mails etc. all of which let you know for sure that the order was processed in a 'manual' way.

To automate this process, PayPal can optionally ping you back at another URL with order completion information. It uses a mechanism called Instant Payment Notification (IPN) which is essentially a web based callback mechanism that calls a pre-configured url on your site. IPN must be enabled on the PayPal site and when enabled IPN sends a confirmation to you at this url after the order was processed. PayPal then expects a return from you within a certain timeframe (a few minutes) and return a response to you to confirm you that the customer has paid. To do this you have to POST the data back to PayPal by echoing back all the form data that PayPal sends to you. IPN is optional, but it's a requirement if you need to confirm your orders immediately with your customers.

While using the PayPal payment method, a customer is not required to fill any additional information in the last step of the checkout process. After the "Finish payment" button is clicked she is redirected to the PayPal payment gateway to finish payment:





7.7 Developing custom payment gateways

Creating a custom payment gateway

Here's a general overview of the process of integrating a custom payment gateway:

- 1. Create a payment gateway form with your custom controls to enable customers to enter their payment data such as credit card number, see section Creating custom payment gateway form.
- 2. Create your custom payment gateway class and override required methods for payment processing, see section Creating custom payment gateway class.
- 3. Go to the CMSDesk -> Tools -> E-commerce -> Configuration -> Payment methods.
- 4. Create a new payment method and register your custom payment gateway as described in the Payment methods chapter.

Creating a custom payment gateway form

1. Create a new web user control (*.ascx) and place it into your site folder which is located in the root of your web project.

Since the control is located in the site folder it is included in export package of your site.

- 2. Set control class to inherit from abstract class
 - CMS.EcommerceProvider.CMSPaymentGatewayForm
- 3. There are several methods you need to override to reach your required functionality:
- LoadData() Initializes form controls with customer payment data.
- ValidateData() Validates customer payment data.
- ProcessData() Process customer payment data and saves them to the ShoppingCartInfo object.
- 4. There are several properties to get or set required information:
- ShoppingCartControl Parent shopping cart control the current shopping cart step belongs to.
- ShoppingCartInfoObj Shopping cart object which stores all data during the checkout process.

Please note: Payment data, such as credit card numbers, credit card codes and others are not saved into the database because of security reasons.

Creating custom payment gateway class

- 1. Create a new library (assembly) as a part of your solution and a new class inside this library.
- 2. Add a reference to *System.Web* assembly into the project with the payment gateway (Right-click the References folder, choose Add reference, select .NET -> System.Web).
- 3. Set your class to inherit from abstract class
- CMS.EcommerceProvider.CMSPaymentGatewayProvider.
- 4. There are several methods you can override to reach your required functionality:
- AddCustomData() Adds payment gateway custom controls to the current shopping cart step. By default CMSPaymentGatewayForm control is added to the payment data container and its data are loaded.
- **RemoveCustomData()** Removes payment gateway custom controls from the current shopping cart step. By default all controls from payment data container are removed.
- ValidateCustomData() Validates payment gateway custom data of the current shopping cart step. By default CMSPaymentGatewayForm control data are validated.
- ProcessCustomData() Process payment gateway custom data of the current shopping cart step. By default CMSPaymentGatewayForm data are processed.
- ProcessPayment() Process payment you need to override this method to process payment by your payment processor.
- GetPaymentDataForm() Loads payment gateway form with custom controls you need to
 override this method to get your own payment gateway form.
- 5. There are several properties to get or set required information:

- **ShoppingCartControl** Parent shopping cart control the current shopping cart step belongs to.
- ShoppingCartInfoObj Shopping cart object which stores all data during the checkout process .If OrderId is set it is created from existing order, otherwise it is returned from current shopping cart control.
- OrderId Order ID. Set this value when you want to process payment for the existing order outside the checkout process.
- PaymentDataContainer Payment gateway custom controls container of the current shopping cart step control.
- PaymentResult Payment result (see caption Payment Result)
- IsPaymentCompleted Indicates whether order payment was already completed. It is determined by order payment result.
- InfoMessage Payment result message displayed to user when payment succeeds.
- ErrorMessage Payment result message displayed to user when payment fails.
- 6. Compile the library.
- 7. Ensure the library file (*.dll) is included in *<your web project folder>/Bin* directory.

Example

The following example shows a custom payment processor implementation. It allows customers to pay for their orders using some external payment gateway similar to PayPal, let's call it Custom Gateway. Customer is asked for her credit card number in the last step of checkout process. Credit card number is validated for emptiness and processed after the "Finish payment" button is clicked. If it succeeds payment process is performed – required payment data are attached to the payment url and customer is redirected to Custom Gateway. If payment process fails (payment gateway url is not defined) order payment result is updated and appropriate error message is displayed. Notice that order is saved before the customer is asked to pay for it, it happens immediately after the "Order now" button is clicked.

Please note:

E-commerce

- It is not secure to send credit card information as a part of payment gateway url. Customer is usually asked for her credit card number after she is redirected to the payment gateway itself; otherwise another way of sending credit card information should be used instead.
- For more details about how payment gateway could inform merchant about the result of the payment which was finished outside her web site see caption PayPal (IPN – Instant Payment Notification).

Orders Custome	rs Products	Manufacturers	Suppliers	Discount coupons	s Discount levels	Reports	Configuratio			
Store settings		New paymer	nt metho	d						
Departments										
Shipping options	Paym	ent method 🕨 N	ew paymer	nt method						
Payment metho	ds Payme	ent method displ	ay name:	Custom g	ateway					
Tax classes	Payme	ent method code	name:	CustomG	CustomGateway					
Currencies	Enable									
Exchange rates	Param	ent gateway set	tinas							
Order status	-	ent gateway URL	-	http://www	w.SomePayment	Gateway	com			
Public status	Payme	ent gateway ass	embly nam	e: CMS.Cus	tomProvider					
Internal status	Payme	ent gateway clas	s name:	CMS.Cus	tomProvider.Cus	tomGatew	/ay			
Invoice	Order	status when pay	ment succ	eeds: Payment	received		~			
	Order	status when pay	ment fails:	Payment	failed		~			

Example of custom payment gateway definition.

Custom payment gateway form

It is a simple form with one input field to enter customer credit card number, see image bellow.

Step 6 of 6 - Paymen	t	
Your order was save	ed.	
Payment summa	Ŋ	
Order ID:	604	
Payment method:	Custom gateway	
Total price:	\$ 460.00	
Your credit card	details	
Credit cart number		
	CustomGatewayForm.ascx	
Skip payment		Finish payment

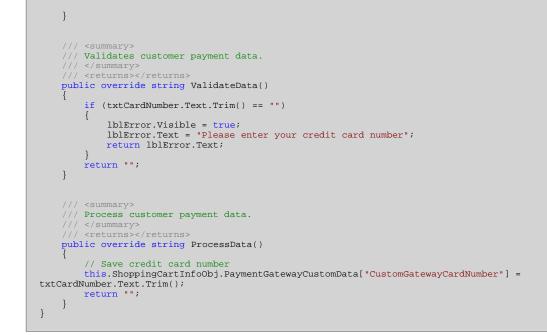
CustomGatewayForm.ascx

```
<%@ Control Language="C#" AutoEventWireup="true" CodeFile="CustomGatewayForm.ascx.cs"
Inherits="CMSEcommerce_Example_CustomGatewayForm" %>
<asp:Label ID="lblTitle" runat="server" EnableViewState="false" CssClass="BlockTitle" />
<asp:Label ID="lblError" runat="server" EnableViewState="false" CssClass="ErrorLabel" Visible="false"
/>
<asp:Label ID="lblCardNumber" EnableViewState="false" runat="server" />
<asp:Label ID="lblCardNumber" runat="server" />
```

CustomGatewayForm.ascx.cs

[C#]

```
using System;
using System.Data;
using System.Configuration;
using System.Collections;
using System.Web;
using System.Web.Security;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Web.UI.HtmlControls;
using CMS.EcommerceProvider;
using CMS.GlobalHelper;
public partial class CMSEcommerce_Example_CustomGatewayForm : CMSPaymentGatewayForm
    protected void Page_Load(object sender, EventArgs e)
     {
          // Initialize label
         bblTitle.Text = "Your credit card details";
lblCardNumber.Text = "Credit card number:";
     }
    /// Initializes form controls with customer payment data.
    public override void LoadData()
// Display customer credit card number
txtCardNumber.Text = ValidationHelper.GetString(this
.ShoppingCartInfoObj.PaymentGatewayCustomData["CustomGatewayCardNumber"], "");
```



Custom payment gateway class

The following example uses assembly name CMS.CustomProvider and class CMS.CustomProvider.CustomGateway, however, you will need to use your own names.

CustomGateway.cs

[C#]



```
/// Process payment.
         public override void ProcessPayment()
             // Get payment gateway url
             string url = this.GetPaymentGatewayUrl();
             if (url != "")
             {
                  // Initialize payment parameters
                 Hashtable parameters = InitializePaymentParameters();
                 // Add required payment data to the url
url = GetFullPaymentGatewayUrl(url, parameters);
                  // Redirect to payment gateway to finish payment
                 this.ShoppingCartControl.Page.Response.Redirect(url);
             }
             else
             {
                  // Show error message - payment gateway url not found
                 this.ErrorMessage = "Unable to finish payment: Payment gateway url not found.";
                 // Update payment result
this.PaymentResult.PaymentDescription = this.ErrorMessage;
this.PaymentResult.PaymentIsCompleted = false;
                   / Update order payment result in database
                 this.UpdateOrderPaymentResult();
             }
         }
         /// Returns table with initialized payment parameters.
         /// </summary>
         private Hashtable InitializePaymentParameters()
             Hashtable parameters = new Hashtable();
             parameters["orderid"] = this.ShoppingCartInfoObj.OrderId;
             parameters["price"] = this.ShoppingCartInfoObj.TotalPrice;
             parameters["currency"] = this.ShoppingCartInfoObj.CurrencyInfoObj.CurrencyCode;
             parameters["cardnumber"] = Convert.ToString(this
.ShoppingCartInfoObj.PaymentGatewayCustomData["CustomGatewayCardNumber"]);
             return parameters;
         }
         /// <summary>
/// Returns payment gateway url with payment data in query string.
/// </summary>
/// <param name="url">Payment gateway url.</param>
             <param name="parameters">Initialized payment paremeters.</param>
         private string GetFullPaymentGatewayUrl(string url, Hashtable parameters)
             foreach (DictionaryEntry parameter in parameters)
                  // Add payment data to the url
                 url = UrlHelper.AddParameterToUrl(url, Convert.ToString(parameter.Key), HttpUtility
.UrlEncode(Convert.ToString(parameter.Value)));
             return url;
         }
    }
}
```

7.8 Payment results

Payment Results

Payment result is stored in xml format which is represented by the object CMS.Ecommerce.PaymentResultInfo. Each payment result xml node is equal to the single payment result item which is represented by the object CMS.Ecommerce.PaymentResultItemInfo.

Base payment result items are:

- **Payment date** Date and time when the payment result was last updated.
- Payment method Payment method which was used for payment.
- **Payment is completed** Yes/No. Indicates whether payment was already completed.
- Payment status Completed/Failed/(your custom status). Status of the payment.
- **Payment transaction ID** Completed payment unique identifier generated by the payment gateway.
- Payment description Describes payment result in more details.

Payment result item properties are:

- **Name**: Unique identifier of the item.
- Header: Friendly name of the item visible to user (simple text or localizable string).
- Text: Outer representation of the item value visible to user (simple text or localizable string).
- Value: Inner representation of the item value used by developers.

Following example shows xml definition of the order payment result extended by the item " *authorizationcode*" used by the Authorize.NET:



The following example shows order payment result which is visible to the user in CMSDesk:

Date: 1/27/2008 5:01:41 PM Method: Credit card Is completed: YES Status: Completed Transaction ID: 0 Authorization code: 000000

Please note:

- The order payment result remains empty until it is updated by the payment gateway processor.
- You don't need to specify both item value and item text if they are identical because payment result rendering method can manage this and renders payment result as follows: try to render item text, if not found, try to render item value.

How to customize payment result

You can use *PaymentResultInfo* properties to get or set specified item text or value:

- PaymentDate
- PaymentMethodID
- PaymentMethodName
- PaymentIsCompleted
- PaymentStatusName
- PaymentStatusCode
- PaymentTransactionID

You will need to use public methods **GetPaymentResultItemInfo**(string itemName) and **SetPaymentResultItemInfo**(PaymentResultItemInfo itemObj) to get and set your custom payment result items.

The following example shows how to get and set custom payment result item while payment processing by your custom payment gateway provider:

[C#]

```
using CMS.Ecommerce;
// Set authorization code
PaymentResultItemInfo item = new PaymentResultItemInfo();
item.Header = "{$AuthorizeNet.AuthorizationCode$}";
item.Name = "authorizationcode";
item.Value = "00000";
this.PaymentResult.SetPaymentResultItemInfo(item);
```

[C#]

```
using CMS.Ecommerce;
// Get authorization code
PaymentResultItemInfo item = this.PaymentResult.GetPaymentResultItemInfo(
"authorizationcode");
```

7.9 Purchase process overview

The standard purchase (checkout) process looks like this:

- 1. The user browses the web site and adds the products to the **shopping cart**. She can modify the number of items in the cart. She can also insert a discount coupon.
- 2. The user clicks the Checkout button. She can choose from three options:
 - Sign in using an existing account if she already has a user account
 - Create a new account

- Continue as anonymous customer - this option doesn't require the user to create a user account, but she needs to enter her details with every purchase. You can enable/disable this option at CMS Desk -> Tools -> E-commerce -> Configuration -> Store Settings -> Allow anonymous customers.

- 3. The user enters/updates customer data, including first name, last name, e-mail and company name.
- 4. The customer enters billing/shipping address or chooses from the list of previously used addresses. The use can also choose to enter an additional company headquarters address that can be enabled

at CMS Desk -> Tools -> E-commerce -> Configuration -> Store Settings -> Use an extra company address.

- 5. The user chooses the payment and shipping method.
- 6. The user previews the order.
- 7. The user completes the order or continues with on-line payment. The order status is set to New. The order notification e-mail is sent to store owner and to the customer if it's configured in CMS Desk -> Tools -> E-commerce -> Configuration -> Store Settings dialog.
- The payment is processed by the payment gateway. If the payment succeeds/fails, the order status is set to values specified at CMS Desk -> Tools -> E-commerce -> Configuration -> Payment methods -> <select some payment method> -> Order status when payment succeeds/fails. A payment notification e-mail is sent to store owner and to the customer if it's configured in CMS Desk -> Tools -> E-commerce -> Configuration -> Store Settings dialog and if the payment is successfully completed.
- 9. The user is redirected to the page configured in the properties of the **Shopping cart** web part, in the **Default URL after purchase** value.

Shopping cart content

The shopping cart content is stored in the database and it's bound to the current user name. If the user is anonymous, the cart ID is stored in a browser cookie. It ensures that the cart content is preserved even if the session is lost during application restart. You can find more details on how the shopping cart is retrieved in Figure D - Shopping cart retrieval.

When the checkout process is completed (regardless if the payment succeeds or fails), a new order is created and the shopping cart content is moved to the order. The cart is empty then.

The cart content is accessible in your code using the **ShoppingCartInfoObj** class in the checkout process steps.

7.10 Customer credit

Customers may receive a credit on their account. They can then purchase products using this credit. This feature is useful for customer loyalty competitions where customers receive bonus points/credit for their previous purchases and can order some products once they achieve an appropriate amount of credit.

Please note: the purchase can be made only using one payment method, so it's not possible to combine credit payment with another form of payment and the whole order must be paid using the credit.

The customer receives credit when the store owner adds some credit event to the customer history. This can be done in **Customer properties** dialog, on the **Credit** tab.

Before you can offer registered customers to use the **Customer credit** you will need to do some necessary settings:

- 1. Ensure that the **Customer credit** payment method is registered and enabled.
- 2. Check the **Customer credit** payment method settings:
 - Payment gateway url: leave blank
 - Payment gateway assembly name: CMS.EcommerceProvider

Payment gateway class name: CMS. EcommerceProvider. CMSCreditPaymentProvider

While using the customer credit, a customer is not required to fill any additional information in the last step of the checkout process. After the "Finish payment" button is clicked her credit is decreased by specified amount which is equal to the order total price in default currency and the order payment result is updated.

	Sign in to CMS Desk. Sign in to CMS Site Manager. The default account is administrator with blank password.
E-commerce starter site	Electronics for you Shopping cart My account My wishlist Image: Total price: \$ 770.00
Search	Home News Products How to buy Company david simons Sign out
Products	Step 6 of 6 - Payment
 Cameras Cell phones MP3 Players Notebooks PDAs PCs 	Your order was saved. A Payment summary Order ID: 2 Payment method: Customer credit Total price: \$ 770.00
How did you find this site?	Use credit for payment
O Print advertising	Available credit \$ 1000.00
C Link from another web site Search engine Vote	Skip payment Finish payment
Quick links	
 » How to buy » Company » News » Home 	
	Pewered by

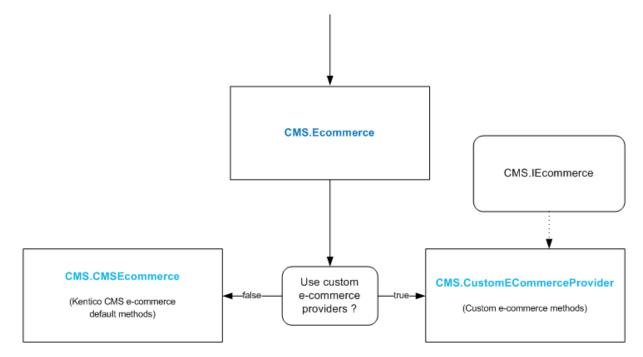


8 Developing custom providers

8.1 Overview

The E-commerce module allows you to override the default behavior and calculations by using custom providers that ensure various operations.

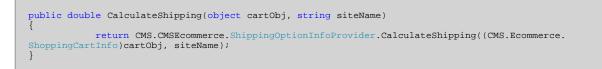
How does it work?



For more information please refer to the Using custom providers chapter.

The following example shows the way of customizing the calculation of the shipping cost by modifying the **CMS.CustomECommerceProvider.CustomShippingOptionInfoProvider.CalculateShipping** method. Similarly, you can modify any method of any class from the **CMS. CustomECommerceProvider** library.All the methods that can be customized call by default the equivalent methods from the **CMS.CMSEcommerce** namespace. This ensures the standard behaviour in the case the given method is not modified and the using custom e-commerce provider is enabled at the same time.

1. The default code of the CMS.CustomECommerceProvider. CustomShippingOptionInfoProvider.CalculateShipping method.



2. The customized code of the CMS.CustomECommerceProvider. CustomShippingOptionInfoProvider.CalculateShipping method



8.2 Using custom providers

By default, Kentico CMS is delivered with sample custom providers with samples of method implementation. To include custom providers within your web project, please follow these steps:

- 1. Open your web project in Visual Studio.
- Copy the C:\Program Files\Kentico CMS\<version>\CodeSamples\CustomECommerceProvider directory to your working directory and add the project CustomECommerceProvider.csproj to your solution.
- Remove all the references to the Kentico CMS libraries from the CustomECommerceProvider project and replace them with references to the corresponding DLL references from your web project /bin directory.
- 4. Delete the CMS.CustomECommerceProvider.dll file from the /bin directory of the CMS project.
- 5. Add the project reference to the CustomECommerceProvider project to your web project
- 6. Compile the solution.

Now your project is ready to use the custom providers. To enable custom providers, add following settings key to you web.config file:

```
<appSettings>
<add key="CMSUseCustomEcommerceProviders" value="true" />
</appSettings>
```

Since now, your web application will call your custom providers to handle the E-commerce requests. If you do not want to override the behaviour of certain methods, you should just call the CMS provider method to perform the original action. Original CMS providers are located in the **CMS.CMSEcommerce** namespace. See the next chapters to get the information about the providers and actions that they should perform in your methods to ensure the system consistency.

Every custom provider must implement a corresponding interface from the **CMS.IECommerce** namespace. For example: the **CustomSKUInfoProvider** implements the **ISKUInfoProvider** interface.

All providers use **System.Object** parameter types, so you need to type the method parameters to appropriate data types.

Please note: If you implement only some of the custom providers, you should ensure that your data are consistent with the other E-commerce database data. In case of inconsistency the system might not work well.

Additional information

If you need additional information on some class or database table structure, please see the **Database Reference** or **API Reference** documentation.

8.3 CustomAddressInfoProvider

This provider works with customer addresses and provides the address data manipulation in general. The methods work with **CMS.Ecommerce.AddressInfo** class which is replaced by object in the method headers. The provider implements the following methods:

- object GetAddressInfo(int addressId) returns the AddressInfo object by address ID.
- object GetAddressInfo(string addressName) returns the AddressInfo object address name.
- void SetAddressInfo(object address) inserts/updates the AddressInfo object to the database. If the AddressID property value is set, the database record is updated, if not, the record is inserted and new record ID must be set in the object.
- void DeleteAddressInfo(int addressId) deletes the address record from the database by given address ID.
- string GetAddressName(object addressInfoObj) generates the address name.
- DataSet GetAddresses(string where, string orderBy) returns the DataSet of all the addresses filtered by WHERE condition and ordered by orderBy expression, see the database reference for the address column definition.
- DataSet GetAddressesForCustomer(int customerId, bool showBilling, bool showShipping, bool showCompany, bool onlyEnabled) returns the DataSet of all the addresses for the specified user according to the input parameters, see the database reference for the currency column definition.
- bool CheckDependencies(int addressId) returns true if some objects depend on the

address specified by its ID.

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8.4 CustomCurrencyInfoProvider

This class provides the methods to work with currencies. Methods work with **CMS.Ecommerce.CurrencyInfo** class.

- object GetCurrencyInfo(int currencyId) returns the CurrencyInfo object by currency ID.
- object GetCurrencyInfo(string currencyName) returns the CurrencyInfo object by code name.
- void SetCurrencyInfo(object currency) inserts/updates the currency record to the database. If CurrencyID is set, it performs an update, else it performs a new currency insertion and initializes new record ID.
- void DeleteCurrencyInfo(int currencyId) deletes the currency record specified by its ID.
- DataSet GetAllCurrencies() returns the DataSet of all the currencies, see the database reference for the currency column definition.
- DataSet GetCurrencies(string where, string orderBy) returns the DataSet of all the currencies filtered by where condition and ordered by orderBy expression, see the database reference for the currency column definition.
- DataSet GetCurrenciesWithExchangeRate() returns the DataSet with currencies, that have a currently valid an exchange rate specified.
- **object GetMainCurrency()** returns the main (default) currency. The main currency has the CurrencyIsMain value set to true, all the others must have it set to false.
- **void RemoveMainCurrency()** removes the main currency flag from the currency records (it sets all CurrencyIsMain values to false)
- double RoundTo(double price, int currencyId) performs the price rounding based on the currency defined by its ID.
- double RoundTo(double price, object ciObj) performs the price rounding based on the given CurrencyInfo object.
- string GetFormatedPrice(double price, object ciObj) returns the price string formatted by given CurrencyInfo object content (CurrencyFormatString).
- string GetFormatedValue(double price, object ciObj) returns the string formatted by given CurrencyInfo object (to display the value without price, in grids etc.).
- double GetLastValidExchangeRate(int currencyId) returns the last valid exchange rate for given currency ID.

- double GetCurrentValidExchangeRate(int currencyId) returns the currently valid exchange rate for given currency ID.
- double GetExchangeRate(int currencyId, DateTime time) returns exchange rate for given currency ID at given time.
- bool CheckDependencies(int currencyId) returns true if some objects depend on the currency specified by its ID.
- void RecalculateValues(double rate, bool updExchangeRates, bool updSKUs, bool updTaxes, bool updDiscountCoupons, bool updVolumeDiscounts, bool updCredit, bool updShippingOptions, bool updDocuments, bool updFreeShipping) - recalculates specified values with given exchange rate.

8.5 CustomCustomerInfoProvider

This class works with customer information. It uses the CMS.Ecommerce.CustomerInfo class.

- object GetCustomerInfo(int customerId) returns the CustomerInfo object by customer ID.
- object GetCustomerInfoByUserId(int userId) returns the CustomerInfo object for the registered user with specified user ID. Please note that registered customers are connected to corresponding CMS_User records. This couple ensures proper authentication and shopping cart privacy. Anonymous customers do not have their corresponding CMS_User record and are strictly used for one-time orders.
- object GetCustomerInfo(Guid customerGuid) Returns the CustomerInfo object selected by customer GUID.
- void SetCustomerInfo(object customer) updates or inserts the customer database record using given CustomerInfo object data. If CustomerID is set, update is performed, else new record is inserted.
- void DeleteCustomerInfo(int customerId) deletes the customer record specified by its customer ID.
- bool CheckDependencies(int customerId) returns true if some objects depend on the record with given customer ID.
- DataSet GetCustomers() returns the DataSet with all customers. Please see the database reference for columns and their types.
- DataSet GetCustomers(string where, string orderBy) returns the DataSet of all customers selected with given WHERE condition and ORDER BY clause.
- DataSet GetCustomersList() returns the DataSet with customers joined with their Country and State data, see View_COM_Customer_Joined view for the required result columns.

• DataSet GetCustomersList(string where, string orderBy) - returns the cus tomer list as a DataSet selected by given WHERE condition and ORDER BY specification.

8.6 CustomDepartmentInfoProvider

Department provider works with the department records and definition that can be used to separate the product groups and branches. It uses the **CMS.Ecommerce.DepartmentInfo** class.

- object GetDepartmentInfo(int departmentId) returns the DepartmentInfo object by given department ID.
- object GetDepartmentInfo(string departmentName) returns the DepartmentInfo object selected by given department code name.
- void SetDepartmentInfo(object department) updates the department record with the data from given DepartmentInfo object. If DepartmentID value is set, it updates the existing record, else it inserts a new record.
- void DeleteDepartmentInfo(int departmentId) deletes department record specified by its department ID.
- void AddUserToDepartment(int departmentId, int userId) adds the user to the department. User-Department is N:N relationship. This assignment is defined for the administration purposes and access control.
- void RemoveUserFromDepartment(int departmentId, int userId) removes user from the department.
- bool IsUserInDepartment(int departmentId, int userId) returns true if the user is member of given department.
- DataSet GetUserDepartments(int userId) returns the DataSet of the user departments, see the database reference for required column definition.
- DataSet GetDepartments() returns DataSet of all departments defined in the E-commerce system.
- DataSet GetDepartments(string where, string orderBy) returns DataSet of the departments selected with given condition and order by specification.
- **bool CheckDependencies(int departmentId)** returns true if some objects depend on given department to prevent the deletion.

8.7 CustomDiscountCouponInfoProvider

This class works with discount coupon information. It uses the **CMS.Ecommerce.DiscountCouponInfo** class.

- object GetDiscountCouponInfo(int discountCouponId) returns
 DiscountCouponInfo object selected by given discount coupon ID.
- object GetDiscountCouponInfo(string discountCouponCode) returns the DiscountCouponInfo object selected by given coupon code.
- void SetDiscountCouponInfo(object discountCoupon) updates the discount coupon record with the data from given DiscountCouponInfo object. If DiscoutCouponID is set, it updates the record, else it inserts a new record and initializes its ID.
- void DeleteDiscountCouponInfo(int discountCouponId) deletes specified coupon record by given ID.
- bool CheckDependencies(int discountCouponId) returns true if there are some objects dependent on the given coupon.
- **DataSet GetCouponProducts(int couponId)** returns the DataSet products assigned to the discount coupon. There is an N:N relationship between products (SKUs) and coupons.
- DataSet GetCouponProducts(int couponId, string where, string orderBy) - returns the DataSet of coupon products selected with given condition and order.
- void AddSKUToDiscountCoupon(int skuId, int discountId) adds the relationship between product and coupon.
- void RemoveSKUToDiscountCoupon(int skuId, int discountId) removes the relationship between product and coupon.
- bool IsSKUAssignedToDiscountCoupon(int skuId, int discountId) returns true if product is assigned to the discount coupon.
- **bool IsSKURelatedToDiscountCoupon(int skuId, int discountId)** returns true if there is a relation between specified discount coupon and SKU.
- DataSet GetDiscountCoupons() returns the DataSet of all discount coupons. See database reference for required fields.
- DataSet GetDiscountCoupons(string where, string orderBy) returns the coupons with specified condition and order applied.

8.7.1 CustomDiscountLevelInfoProvider

This class works with discount level information. It uses the **CMS.Ecommerce.DiscountLevelInfo** class.

- void DeleteDiscountLevelInfo(int discountLevelId) deletes the given discount level.
- object GetDiscountLevelInfo(int discountLevelId), object
 GetDiscountLevelInfo(discountLevelCodeName) returns the DiscountLevelInfo for the specified discount level.

- void SetDiscountLevelInfo(object discountLevel) updates discount level.
- object GetAllDiscountLevelInfo() get all discount levels
- object GetAllDiscountLevelInfo(string where, string orderBy) get all discount levels filtered by where condition and ordered by orderBy expression.
- void AddToDepartment(int discountLevelId, int departmentId)-assigns specified discount level to the department. It means that discount is applied only to products from the specified departments then.
- void RemoveFromDepartment(int discountLevelId, int departmentId) removes specified discount level from the department.
- DataSet GetDepartments(int discountLevelId) returns DataSet of all the departments to which the specified discount level is applied.

8.8 CustomExchangeTableInfoProvider

This class works with exchange rates. It uses the CMS.Ecommerce.ExchangeTableInfo class.

- object GetExchangeTableInfo(int exchangeTableId) returns the ExchangeTableInfo object selected by given table ID.
- object GetExchangeTableInfo(string tableName) returns the ExchangeTableInfo object selected by given table name.
- void SetExchangeTableInfo(object exchangeTable) updates the exchange table record based on given ExchangeTableInfo object data. If ExchangeTableID is set, updates the record, else inserts a new one.
- void DeleteExchangeTableInfo(int exchangeTableId) deletes the exchange table.
- DataSet GetRatesByTableID(int tableId) returns the DataSet of exchange rates for given table ID.
- void DeleteRateByRateId(int currencyId, int tableId) deletes specified currency exchange rate from exchange table.
- void SetRateByRateId(int rateId, int CurrencyId, double rateValue, int tableId) – sets the specified rate value.
- **object** GetLastValidExchangeTableInfo() returns ExchangeTableInfo object that was last valid.
- double ApplyExchangeRate(double value, double exchangeRate) applies the exchange rate to the given price. By default resulting_price = original_price / exchange_rate.
- DataSet GetExchangeTables() returns the DataSet of all the exchange tables. See database reference for column details.

• DataSet GetExchangeTables(string where, string orderBy) - returns the DataSet of exchange tables selected with given condition and order.

8.9 CustomInternalStatusInfoProvider

This class manages the internal status lookup table. It uses the InternalStatusInfo class.

- object GetInternalStatusInfo(int internalStatusId) returns the InternalStatusInfo object selected by its ID.
- object GetInternalStatusInfo(string internalStatusName) returns the InternalStatusInfo object selected by its name.
- void SetInternalStatusInfo(object internalStatus) updates status record with data from given InternalStatusInfo object. If StatusID is set, updates the record, if not inserts a new record.
- void DeleteInternalStatusInfo(int internalStatusId) deletes the internal status record with given ID.
- bool CheckDependencies(int internalStatusId) returns true if some records depend on the status record.
- DataSet GetStatuses(object status) returns the DataSet of all the statuses. See Database Reference for column definition.
- object GetInternalStatusInfos(string where, string orderBy) returns the DataSet of all the statuses filtered by where condition and ordered by orderBy expression.

8.10 CustomManufacturerInfoProvider

This class manages the manufacturer lookup table. It uses the ManufacturerInfo class.

- object GetManufacturerInfo(int manufacturerId) returns the ManufacturerInfo object selected by given ID
- object GetManufacturerInfo(string manufacturerName) returns the ManufacturerInfo object selected by given name.
- void SetManufacturerInfo(object manufacturer) updates/inserts the manufacturer record with data from given ManufacturerInfo object. If ManufacturerID is set, updates the record, if not inserts the record.
- void DeleteManufacturerInfo(int manufacturerId) deletes the specified manufacturer record.
- bool CheckDependencies(int manufacturerId) returns true if some objects depend on given manufacturer record.

- DataSet GetAllManufacturers(object status) returns the DataSet of all the manufacturers. See database reference for column details.
- object GetManufacturerInfos(string where, string orderBy) returns the DataSet of all the manufacturers filtered by where condition and ordered by orderBy expression.

8.11 CustomOptionCategoryInfoProvider

This class works with product option category information. It uses the **CMS.Ecommerce.OptionCategoryInfo** class.

- object GetOptionCategoryInfo(int optionCategoryId) returns the OptionCategoryInfo object selected by given ID.
- void SetOptionCategoryInfo(object manufacturer) updates/inserts the product option category record with data from given OptionCategoryInfo object. If CategoryID is set, updates the record, if not inserts the record.
- void DeleteOptionCategoryInfo(int optionCategoryId) deletes the specified option category record.
- bool CheckDependencies(int categoryId) returns true if some objects depend on given product option category record.
- DataSet GetOptionCategories() returns the DataSet of all the product option categories. See database reference for column details.
- DataSet GetOptionCategories(string where, string orderBy) returns the DataSet of all the product option categories filtered by where condition and ordered by orderBy expression.
- DataSet GetSKUOptionCategories(int skuId, string where) returns the DataSet of all the option categories which are assigned to the specified SKU filtered by specified where condition.
- void AddOptionCategoryToSKU(int categoryId, int skuId) assigns option category to the specified SKU.
- void RemoveOptionCategoryFromSKU(int categoryId, int skuId) removes option category from the specified SKU.
- void SortProductOptionsAlphabetically(int categoryId) sorts product options of the specified option category alphabetically (A-Z).

8.12 CustomOrderInfoProvider

This class manages the orders. It uses the OrderInfo class.

- object GetOrderInfo(int orderId) returns the OrderInfo object selected by order ID.
- void SetOrderInfo(object order) updates/inserts the order record based on the given OrderInfo object. If OrderID is set, updates the record, else inserts a new one.
- void DeleteOrderInfo(int orderId) deletes the specified order record.
- DataSet GetOrders() returns the DataSet with the orders. See Database Reference for column details.
- DataSet GetOrders(string where, string orderBy) returns the DataSet of column orders with given condition and order.
- DataSet GetOrderList() returns the DataSet of the orders data joined with their customer, status and currency data.
- DataSet GetOrderList(string where, string orderBy) returns the order list DataSet with given condition and order.
- string GetInvoice(int orderId, int siteId) returns the HTML code of an order invoice.
- string GetPaymentOption(int paymentId) returns the HTML code for the payment option.
- string GetShippingOption(int shippingId) returns the HTML code for the shipping option.
- string GetAddress(int addressId) returns the HTML code for the given address.
- string GetInvoiceNumber(object order) returns HTML code for the invoice number.
- string GetOrderDate(object order) returns the HTML code for the order date.
- string GetOrderNote(object order) returns the HTML code for the order note
- string GetTaxRegistrationID(object customerObj) returns HTML code for the customer tax registration ID
- string GetOrganizationID(object customerObj) returns HTML code for the customer organization ID
- string GetTotalShipping(double value, object currency) returns the HTML code for the total shipping
- string GetTotalPrice(double value, object currency) returns the HTML code for the total price

- string GetProductList(DataTable dt, object currency, bool renderDiscount) – returns the HTML code for the product list (by default simple table of order items).
- string GetTaxRecapitulation(DataTable dt, object currency) returns the HTML code for the tax recapitulation (by default table of the tax summary).
- void SendOrderNotificationToCustomer(object cartObj) sends the order e-mail notification to the customer.
- void SendOrderNotificationToAdministrator(object cartObj) sends the order e-mail notification to the administrator.
- void SendOrderPaymentNotificationToCustomer(object cartObj) sends the order payment e-mail notification to the customer.
- void SendOrderPaymentNotificationToAdministrator(object cartObj) sends the order payment e-mail notification to the administrator.
- public void SendOrderStatusNotificationToAdministrator(object cartObj) sends the e-mail notification to administrator about new order status of the specified order.
- public void SendOrderStatusNotificationToCustomer(object cartObj) sends the e-mail notification to customer about new order status of the specified order.

8.13 CustomOrderItemInfoProvider

This class manages the order items. It uses the **OrderItemInfo** class.

- object GetOrderItemInfo(int orderItemId) returns the OrderItemInfo object selected by given ID.
- void SetOrderItemInfo(object orderItem) updates/inserts the order item with given OrderItemInfo object data. If ItemID is set, updates the existing data, else inserts a new record.
- void DeleteAllOrderItems(int orderId) deletes all items for specified order.
- void DeleteOrderItemInfo(int orderItemId) deletes the order item with given ID.
- DataSet GetOrderItems(string where, string orderby) returns the DataSet of all the order items filtered by where condition and ordered by orderBy expression, see the database reference for the order item column definition.

8.14 CustomOrderStatusInfoProvider

Provider contains methods for order status lookup table. It uses the OrderStatusInfo class.

- object GetOrderStatusInfo(int orderStatusId) returns the OrderStatusInfo object selected by given ID.
- object GetOrderStatusInfo(string orderStatusName) returns the OrderStatusInfo object selected by given name.
- DataSet GetStatuses(object status) returns the DataSet of order statuses with specified status. See database reference for column definitions.
- DataSet GetStatuses(string where, string orderBy) returns the DataSet of all the order statuses filtered by where condition and ordered by orderBy expression, see the database reference for the order status column definition.
- void SetOrderStatusInfo(object orderStatus) updates/inserts the order status record with data from given OrderStatusInfo object. If StatusID is set, updates, else inserts a new record.
- void DeleteOrderStatusInfo(int orderStatusId) deletes the specified order status.
- **void MoveStatusUp(int statusId)** moves the status up (changes the status order).
- void MoveStatusDown(int statusId) moves the status down (changes the staus order).
- **int GetLastStatusOrder()** returns the order ID of the last status.
- object GetFirstEnabledStatus() returns the first enabled OrderStatusInfo object.
- object GetNextEnabledStatus(int statusId) returns next enabled OrderStatusInfo object which is situated after the specified status in order status flow
- **object** GetPreviousEnabledStatus(int statusId) returns previous enabled OrderStatusInfo object which is situated before the specified status in order status flow.
- bool CheckDependencies(int orderStatusId) returns true if some objects depend on the status.

8.15 CustomOrderStatusUserInfoProvider

The provider contains methods for order auditing log. It uses the **OrderStatusUserInfo** class.

- object GetOrderStatusUserInfo(int orderStatusUserId) returns the OrderStatusUserInfo object selected by given ID.
- void SetOrderStatusUserInfo(object orderStatusUser) updates/inserts the order status history record with data from given OrderStatusUserInfo object. Updates when OrderStatusUserID is set, else inserts new record.
- void DeleteOrderStatusUserInfo(int orderStatusUserId) deletes specified order status history record.

• DataSet GetOrderStatusList(int orderId) – returns the DataSet with order status history list, see View_CMS_OrderStatusUser_Joined for required columns.

8.16 CustomPaymentOptionInfoProvider

This class manages the payment option lookup table. It uses the PaymentOptionInfo class.

- object GetPaymentOptionInfo(int paymentOptionId) returns the PaymentOptionInfo object with specified ID.
- object GetPaymentOptionInfo(string paymentOptionName, string siteName) - returns PaymentOptionInfo object with specified name on given site.
- void SetPaymentOptionInfo(object paymentOption) updates/inserts the payment option record with data from given PaymentOptionInfo object. If PaymentOptionID is set, updates, else insert a new record.
- void DeletePaymentOptionInfo(int paymentOptionId) deletes the payment option info record.
- DataSet GetPaymentOptions() returns the DataSet of payment options. See database reference for detailed column information.
- DataSet GetPaymentOptions(string where, string orderBy) returns the DataSet of payment options with condition and order.
- DataSet GetAllPaymentsForSite(int siteId, object status) returns all payment options for given site with specified status.
- bool CheckDependencies(int paymentOptionId) returns true if some objects depend on given payment option.
- string GetPaymentURL(object cartObj) returns the payment gateway URL to use with given ShoppingCartInfo object.
- void AddPaymentToShipping(paymentId, shippingId) adds payment method to the given shipping option.
- DataSet GetShippingPaymentList(int shippingID) fills dataset with payment methods for specific shippingID; contains all details.
- DataSet GetShippingPayments(int shippingOptionId, bool enabled, bool disabled) - fills dataset with payment methods for specific shippingID; contains only payment method details.
- void RemovePaymentFromShipping(int paymentId, int shippingId) removes payment method from the given shipping option.

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8.17 CustomPublicStatusInfoProvider

This class manages the product status lookup table. Methods work with **PublicStatusInfo** class objects, replaced by **object** in method headers. Provider implements following methods:

- object GetPublicStatusInfo(int publicStatusId) returns the PublicStatusInfo object with given ID.
- object GetPublicStatusInfo(string publicStatusName) returns the PublicStatusInfo object with given name.
- void SetPublicStatusInfo(object publicStatus) updates/inserts the publis status record with data from given PublisStatusInfo object. If StatusID is set, updates, else inserts a new record.
- void DeletePublicStatusInfo(int publicStatusId) deletes specified public status record.
- DataSet GetStatuses(object status) returns the DataSet of all the public statuses with given status.
- object GetPublicStatusInfos(string where, string orderBy) returns the DataSet of all the public statuses filtered by where condition and ordered by orderBy expression.
- bool CheckDependencies(int publicStatusId) returns true if some objects depend on given status.

See database reference for the public status column definition or **PublicStatusInfo** class definition for the **PublicStatusInfo** object details.

8.18 CustomShippingOptionInfoProvider

This class manages the shipping option lookup table. It uses the **ShippingOptionInfo** class.

- object GetShippingOptionInfo(int shippingOptionId) returns
 ShippingOptionInfo object with given ID.
- object GetShippingOptionInfo(string shippingOptionName, string siteName) - returns ShippingOptionInfo object with given name on the given site.
- void SetShippingOptionInfo(object shippingOption) updates/inserts the shipping option with data from given ShippingOptionInfo object.
- void DeleteShippingOptionInfo(int shippingOptionId) deletes the specified shipping option.

- bool CheckDependencies(int shippingOptionID) returns true if some objects depend on given shipping option.
- DataSet GetShippingOptions() returns the DataSet of all shipping options. See database reference for detailed column information.
- DataSet GetShippingOptions(string where, string orderBy) returns DataSet of the shipping options with specified condition and order.
- DataSet GetAllShippingsForSite(int siteId, object status) returns the DataSet of shipping options on given site with specified status.
- double CalculateShipping(object cartObj, string siteName) returns the shipping price for given ShoppingCartInfo object, in default currency.
- DataSet GetShippingOptions(object cart, object status) returns the DataSet of shipping options with specified status and depending on the shopping cart data.
- double ApplyShippingFreeLimit(double shipping, double totalPrice, double siteStoreFreeLimit) - Returns shipping price or zero according to site store shipping free limit.

8.19 CustomShoppingCartInfoProvider

This class provides methods for the shopping cart calculations. The methods internally work with **ShoppingCartInfo** object that stores and works with complete order information.

- void EvaluateShoppingCartContent(object shoppingCart) evaluates the content in the given ShoppingCartInfo object. This method is required to fill at least both ShoppingCartContentTable and ShoppingCartTaxTable objects with proper data for shopping cart to work properly.
- void EvaluateShoppingCartContent(object shoppingCart, bool
 evaluateForInvoice) evaluates the content in the given ShoppingCartInfo object. This method is required to fill at least both ShoppingCartContentTable and ShoppingCartTaxTable objects with proper data for generating an order invoice from them.
- object GetShoppingCartInfo(int shoppingCartId) returns ShoppingCartInfo object with given ID.
- object GetShoppingCartInfo(Guid shoppingCartGUID) returns ShoppingCartInfo object with given GUID.
- object GetShoppingCartInfo(int userId, string siteName) returns ShoppingCartInfo object for the specified user and site.
- object GetShoppingCartInfoFromOrder(int orderId) returns

ShoppingCartInfo object created from the specified order.

- **void** SetShoppingCartInfo(object shoppingCart) updates/inserts the shopping cart with data from given ShoppingCartInfo object.
- void DeleteShoppingCartInfo(int shoppingCartId) deletes the shopping cart with given ID.
- void DeleteShoppingCartInfo(Guid shoppingCartGuid) deletes the shopping cart with given GUID.
- void DeleteShoppingCartInfo(int userId, string siteName) deletes the shopping cart of the specified user and site.
- void DeleteShoppingCartItems(int cartId) deletes all the shopping cart items.
- DataSet GetExpiredShoppingCarts() returns shopping carts that are older than specified time interval from now.
- object CreateShoppingCartInfo(int siteId) returns new empty ShoppingCartInfo object.
- object CreateShoppingCartInfo(DataRow dr) returns new ShoppingCartInfo object created from the given data row.
- object CreateShoppingCartInfo(SerializationInfo info, StreamingContext context) - returns new ShoppingCartInfo object created from deserialized data.
- void ClearShoppingCartPrivateData(object shoppingCart) clears customer's private data from shopping cart.
- void ActualizeSKUAvailableItems(object shoppingCart) actualizes products' available items according to the products' units of the specified shopping cart.
- public static void SetOrder(ShoppingCartInfo shoppingCart) inserts or updates order according to the shopping cart data.

8.20 CustomShoppingCartItemInfoProvider

This class manages the shopping cart items. It uses the **ShoppingCartItemInfo** class.

- object GetShoppingCartItemInfo(Guid cartItemGuid) returns ShoppingCartItemInfo object with given GUID.
- object GetShoppingCartItemInfo(int cartItemId) returns ShoppingCartItemInfo object with given ID.
- void DeleteShoppingCartItem(Guid cartItemGuid) deletes the shopping cart

item with given GUID.

- void DeleteShoppingCartItem(int cartItemId) deletes the shopping cart item with given ID.
- void SetShoppingCartItemInfo(object cartItem) updates/inserts the shopping cart item with data from given ShoppingCartItemInfo object.
- void SetShoppingCartItems(ArrayList cartItems) updates/inserts all the shopping cart items with data from given list items.
- DataSet GetShoppingCartItems(int cartId) returns the DataSet of all shopping cart items including their SKU data of the specified shopping cart.
- DataSet GetShoppingCartItemsFromOrder(int orderId) returns the DataSet of all shopping cart items including their SKU data of the specified order.
- ArrayList GetShoppingCartItemList(int cartId) returns the list of the ShoppingCartItemInfo objects from the specified shopping cart.
- ArrayList GetShoppingCartItemListFromOrder(int orderId) returns the list of the ShoppingCartItemInfo objects created from the order items of the specified order.

8.21 CustomSKUInfoProvider

This provider manages the products (SKUs). It uses the SKUInfo class.

- object GetSKUInfo(int sKUId) returns the SKUInfo object selected by given ID.
- object GetSKUInfo(Guid sKUGuid) returns the SKUInfo object selected by given GUID.
- void SetSKUInfo(object sKU) updates/inserts the SKU record from given SKUInfo object. If SKUID is set, updates, else inserts a new record.
- void DeleteSKUInfo(int sKUId) deletes specified SKU record.
- bool CheckDependencies(int sKUId) returns true if some objects depend on given SKU.
- DataSet GetSKUS() returns the DataSet of all products. See database reference for detailed column information
- DataSet GetSKUs(string where, string orderBy) returns DataSet of products selected with condition and order.
- DataSet GetSKUs(bool products, bool productOptions, string where, string orderBy) returns DataSet of products and/or product options selected with condition and order.
- DataSet GetSKUList(string where, string orderBy) returns the DataSet of product list. Result contains the SKU data and public and internal status display name.

- DataSet GetTopNProductsBySales(int topN, int siteId, string where) returns the DataSet with top N products by sales for the specified site and according to the where condition.
- void AddsKUToWishlist(int userId, int skuId, int siteId) adds specified SKU to user's wishlist.
- void RemoveSKUFromWishlist(int userId, int skuId, int siteId) removes specified SKU from the wishlist of the given user.
- bool IsSKUInWishlist(int userId, int skuId, int siteId) returns true if the given SKU is present in the user's wish list.
- DataSet GetWishlist(int userId, int siteId) returns the content of wish list for the given user as a DataSet.
- DataSet GetOptionCategorySKUs(int categoryId, string where) returns the DataSet of all product options from the specified product option category filtered by specified where condition.
- void MoveSKUOptionUp(int skuId) moves specified product option up within the parent product option category.
- **void MoveSKUOptionDown(int skuId)** moves specified product option down within the parent product option category.

Read also: Using the Product datalist web part

8.22 CustomSupplierInfoProvider

This class manages the supplier lookup table. It uses the **SupplierInfo** class.

- object GetSupplierInfo(int supplierId) returns the SupplierInfo object with given ID.
- object GetSupplierInfo(string supplierName) returns the SupplierInfo object with given name.
- **void SetSupplierInfo(object supplier)** updates/inserts the supplier record from the given SupplierInfo object. If SupplierID is set, updates, else inserts a new record.
- void DeleteSupplierInfo(int supplierId) deletes the supplier record.
- DataSet GetAllSuppliers(object status) returns the DataSet of all the suppliers. See database reference for detailed column information.
- object GetSupplierInfos(string where, string orderBy) returns the DataSet of all the suppliers filtered by where condition and ordered by orderBy expression, see the database reference for the supplier column definition.

 bool CheckDependencies(int supplierId) – returns true if some objects depend on given supplier ID.

8.23 CustomTaxClassInfoProvider

This class manages the tax classes. It uses the TaxClassInfo and TaxClassCountryInfo classes.

- **object** GetTaxClassInfo(int taxClassId) returns the TaxClassInfo object with given ID.
- object GetTaxClassInfo(string taxClassName) returns the TaxClassInfo object with given name.
- void SetTaxClassInfo(object taxClass) updates/inserts the tax class record with data from given TaxClassInfo object. If TaxClassID is set, updates, else inserts a new record.
- void DeleteTaxClassInfo(int taxClassId) deletes specified tax class record.
- DataSet GetTaxClasses() returns the DataSet of all the tax classes. See database reference for detailed column information.
- DataSet GetTaxClasses(string where, string orderBy) returns the DataSet of tax classes with selection condition and order.
- void SetTaxClassCountryInfo(object taxClassCountry) updates/inserts the tax class country record. If IDs are set, updates, else inserts a new record.
- void DeleteTaxClassCountryInfo(int taxClassCountryId, int taxClassId)
 deletes specified tax class country record.
- object GetTaxClassCountryInfo(int taxClassCountryId, int taxClassId) returns the TaxClassCountyInfo object for given tax class and country.
- DataSet GetTaxClassCountries(int taxClassId) returns the DataSet of all the countries assigned to the given tax class.
- DataSet GetTaxClassesForCart(object cartInfo) returns the DataSet of all the classes used within the given ShoppingCartInfo object.
- DataSet GetTaxClassesForCart(object cartInfo, string where) returns the DataSet of all the country tax classes used within the given ShoppingCartInfo object.
- void AddTaxClassToSKU(int taxClassId, int skuId) assigns the given tax class to the specified product.
- void RemoveTaxClassFromSKU(int taxClassId, int skuId) removes the tax class binding from the specified product.
- bool IsTaxClassAssignedToSKU(int taxClassId, int skuId) returns true if the product is assigned for the given tax class.

- DataSet GetSKUTaxClasses(int skuId) returns the DataSet of tax classes assigned to given product.
- **void** SetTaxClassStateInfo(object taxClassState) saves the information about assignment of the state to the tax class.
- void DeleteTaxClassStateInfo(int stateId, int taxClassId) removes the state from the given tax class.
- DataSet GetTaxClassStates(int taxClassId, int countryId) returns DataSet with states of the given country assigned to the given tax class.
- DataSet GetStateTaxClassesForCart(object cartInfo) returns the DataSet of all the state tax classes used within the given ShoppingCartInfo object.
- DataSet GetStateTaxClassesForCart(object cartInfo, string where) returns the DataSet of all the state tax classes used within the given ShoppingCartInfo object.
- DataSet GetAllCountriesWithStates() returns the DataSet of all the countries which have some states.

8.24 CustomVolumeDiscountInfoProvider

This class manages the volume discounts for particular products.

- object DeleteVolumeDiscountInfo(int volumeDiscountId) deletes the TaxClassInfo object with given ID.
- void DeleteVolumeDiscounts(int SKUId) deletes all volume discounts for the given SKU (product).
- object GetVolumeDiscountInfo(int volumeDiscountId) returns volume discount.
- object GetVolumeDiscountInfo(int SKUId, int units) returns volume discount object for given SKU (product) and given quantity of the product.
- DataSet GetVolumeDiscounts(int SKUId) returns DataSet with all volume discounts for the given SKU (product).
- void SetVolumeDiscountInfo(object volumeDiscount) saves the volume discount to the database.
- object GetVolumeDiscounts(string where, string orderBy) returns the DataSet of all the volume discounts filtered by where condition and ordered by orderBy expression, see the database reference for the volume discount column definition.

8.25 Using the Product datalist web part

If you're using a custom provider for managing product information (using the **CustomSKUInfoProvider**), you will need to use the **Product datalist** web part or develop a similar web part that will display the products using the custom provider.

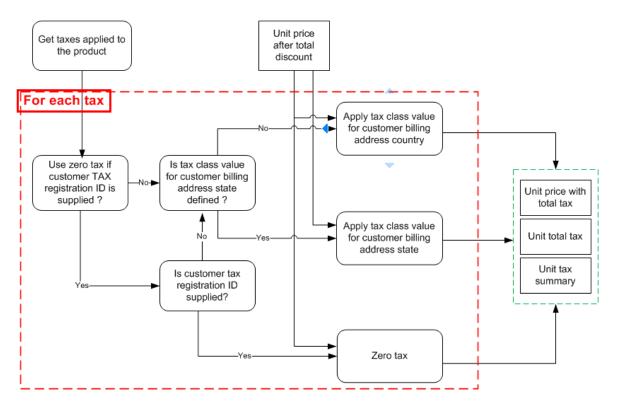
You can find more details on the **Product datalist** web part in **Kentico CMS Web Parts and Controls Reference/Web Parts/E-commerce/Product datalist**.

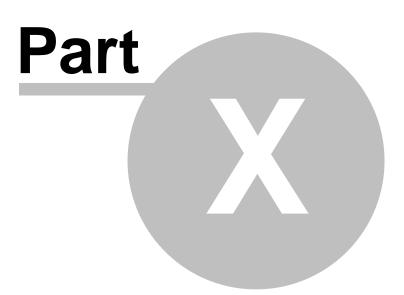


9 Figure A: Tax calculation process

The following figure shows how the tax is calculated:

Taxes

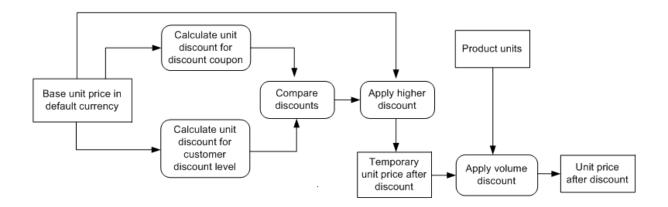


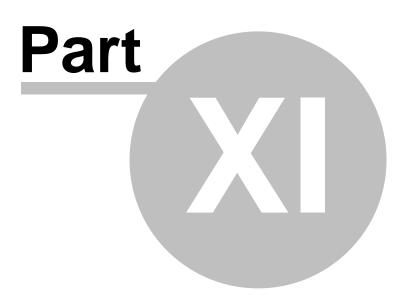


10 Figure B: Discount calculation

The following figure shows how discounts are calculated:

Discounts

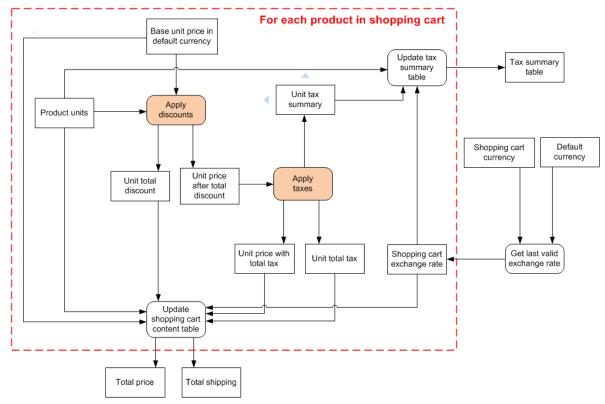


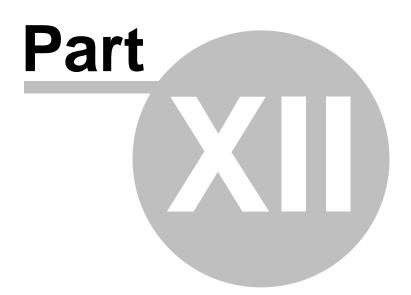


11 Figure C: Shopping cart price calculation

The following figure shows how the total price is calculated:

Shopping cart calculation





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12 Figure D - Shopping cart retrieval

The following figure shows how the shopping cart is retrieved for the current visitor:

