Kentico CMS 5.5 R2 E-commerce Guide



Table of Contents

2

E-commerce Guide	7
Kentico CMS E-commerce module	7
Getting Started	9
Making your first purchase	9
Adding new products	14
Adding product options	18
Customizing product categories	22
Adding product to multiple categories	
Displaying featured products	30
Sorting and paging products	33
Changing company details-	
Customizing the product fields	44
Defining a new product type	44
Customizing product design	51
Adding images to product gallery	
Adding product custom fields	
Customizing web site design	62
Changing the header and menu (master page)	62
Changing colors using CSS styles	
Integration with your existing Kentico CMS web site	75
Overview	
Web parts	
My account	
Random products	
Shopping cart Shopping cart preview	
Similar products by sale	
Top N products by sale	
Wishlist	
Displaying and resizing images	
Overview	
Displaying images	
Storing images Resizing images	
···Tools	

Contents	3

Overview		
BizForms		100
Blogs		101
Booking s	/stem	102
Content st	aging	103
Event cale	ndar	
File import		105
Forums		106
Geo mapp	ing	
Image Gall	ery	
Messaging]	
Newslette	rs	110
Polls		
Reporting		112
RSS Feeds	3	113
User Conti	ibutions	113
Web Analy	tics	
Web Farm	synchronization	115
Adding item	is to the shopping cart	116
Adding item	s to the wish list	119
Displaying p	product price	120
Getting prod	duct URL	121
Searching		122

Configuration settings

Configuration overview	25
Orders12	26
Customers	27
Products	29
Product options	31
Manufacturers	32
Suppliers	32
Discount coupons	32
Discount levels	33
Reports	33
	~~
•	
Configuration13 Store settings	34
Configuration	34 34
Configuration13 Store settings	34 34 35
Configuration	34 34 35 35
Configuration	34 34 35 35 36
Configuration	34 35 35 36 37
Configuration	34 35 35 36 37 37
Store settings	34 35 35 36 37 37 38
Store settings	34 34 35 35 36 37 37 38 38
Store settings	34 34 35 35 36 37 37 38 38 38

Enabling the e-commerce module	140
Security configuration	142
Countries and states	142
E-commerce and multi-site configuration	143
Mapping document fields to product properties	144
Sitemanager settings	
Web.config settings	
Localization settings	
Customizing invoice and e-mail templates	
Using product inventory	155
Discounts overview	
Deleting old shopping carts	166
Purchase process and payment gateways	168
Purchase process overview	168
Customizing the purchase process	169
Developing custom dialogs for the checkout process	172
Payment gateways	178
Authorize.NET configuration	179
PayPal configuration	180
Developing custom payment gateways	183
Payment results	189
Customer credit	191
Developing custom providers	194
Overview	194
Using custom providers	195
CustomAddressInfoProvider	197
CustomCurrencyInfoProvider	197
CustomCustomerInfoProvider	199
CustomDepartmentInfoProvider	199
CustomDiscountCouponInfoProvider	200
CustomDiscountLeveIInfoProvider	201
CustomExchangeTableInfoProvider	
CustomInternalStatusInfoProvider	203
CustomManufacturerInfoProvider	203
CustomOptionCategoryInfoProvider	204
CustomOrderInfoProvider	205
CustomOrderItemInfoProvider	206
CustomOrderStatusInfoProvider	

4

5

CustomOrderStatusUserInfoProvider	207
CustomPaymentOptionInfoProvider	208
CustomPublicStatusInfoProvider	209
CustomShippingOptionInfoProvider	210
CustomShoppingCartInfoProvider	210
CustomShoppingCartItemInfoProvider	212
CustomSKUInfoProvider	212
CustomSupplierInfoProvider	214
CustomTaxClassInfoProvider	214
CustomVolumeDiscountInfoProvider	216
Using the Product datalist web part	216
Figure A: Tax calculation process	218
Figure B: Discount calculation	220
Figure C: Shopping cart price calculation	222
Figure D: Shopping cart retrieval	224



E-commerce Guide

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



Getting Started

2 Getting Started

2.1 Making your first purchase

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

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		My account My wishlist hopping cart is empty
Search	Home News Products How to buy Company Silverlight	Global Administrator Sign out
Products	Products	a Latest news
 Cameras Cell phones MP3 Players Notebooks PDAs PCs 	Status: (ell) Manufacture: Nokia Only in stock Paging: (ell) Sorting: By name: A to Z Filter	2/13/2008 Dear customers, our shop now supports payments through PayPal. You can use this feature from this day. 2/13/2008
Poll How did you find this site?		Dear customers, our company has become Apple partner so you can buy Apple's great products at our shop.
Print advertising Link from another web site Search engine Vote	Nokia 6300 Nokia N82 \$129.00 Image: Add to cart \$490.00	Newsletter subscription E-mail: OK
Quick links >> How to buy >> Company >> News >> Home		
	Kentico	

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	Print
	Parameters:Width:112Height50Weight(g):114Display type:TFT 16M colorsDisplay resolution:240 x 320Bluetooth:yesIrDA:noGPRS:yesEDGE:yesHSCSD:yesSG:yesWi-Fi:yesJava:yesBuilt-in camera:yesMP3 player:yes
Our price: \$563.50 Without tax: \$490.00	
Nokia N82 - Color Silver (+ \$0.00) Black (+ \$10.00)	
Total price (with	out tax): \$500.00
Mdd to wishlist	4 Add to cart

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

Step 1 of 6 - /	Add some products	to the shopping c	art			
	;	8 +	4	, ,		
Shopping	cart					
						Currency: U.S. Dollar
Remove	Product name	Units	Unit price	Unit discount	Тах	Subtotal
	Nokia N82	4	490.00	29.40	27	6.36 🕗 118.76
	- Black	4	10.00	0.00		6.00
			If you have a cou	ipon code, please	enter it here:	
Empty	/					Total shipping: \$0.00 Total price: \$2164.76 Update
Continue	shopping					Check out

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	Per unit	
- Volume discount for minimal amount of 3 units	-6%	-\$29.40
Price after discount		\$460.60
Taxes	Per unit	
- Sales tax	+15%	+\$69.09
Price with tax		\$529.69
Total		
Units		4
Total price		\$2118.76
		Close
http://localhost/Manuals/C 🗣 Local intranet Protected Mod	e: Off	

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

Step 1 of 6 - /	Add some products	to the shopping c	art				
	;	8 +	4	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		*	
Shopping	cart						
						Currency: U.S. Doll	ar 💌
Remove	Product name	Units	Unit price	Unit discount	Тах	Subtotal	
	Nokia N82	4	490.00	29.40	27	6.36 🖉 2 [.]	118.76
	- Black	4	10.00	0.00		6.00	46.00
			If you have a cou	ipon code, please	enter it here:		
Empty	/					Total shipping: Total price: \$	\$0.00 2164.76 ate
Continue	shopping					Che	ck 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@example.com

Click Next.

Step 2 of 6 - Registration c	heck
	+ 🚨 + 🗊 + 🗊 + 🔊
User registration	
O Sign in using your exis	ting account
Oreate a new account	
First name:	David
Last name:	Simons *
E-mail (user name):	DavidSimons@example.com
Company account:	
Password:	*
Confirm password:	*
Continue as anonymo	us customer
Back	Next

7. In the Step 3, enter the new billing address:

- Name (Company or personal): Development Soft
- Address Line: 1020 Blueberry Ln.
- City: Tucson
- **ZIP:** 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 s	shipping address
÷	2 + 💴 + 🗊 + 🕅 + 🔊
Billing address	
Billing address:	(new)
Name (company or personal):	Development Soft
Address lines:	1020 Blueberry Ln.
City:	Tuscon *
ZIP:	85754
Country:	USA 🔹
Country.	Alaska
Phone number:	
Shipping address	erent 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 - Sele	ct payment and	shipping n	nethods	1					
1	,	2	•	2	•		•	•	
Shipping and	l payment me	ethods							
Shipping:	DHL					•			
Payment:	Cash or	delivery				•			
Back									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					
🧯 🔹 💈 🗸		⇒	₽		
Order preview					
Billing address Development Soft 1020 Blueberry Ln. Tuscon 85754 USA, Alaska	Shipping a Developm 1020 Bluel Tuscon 85754 USA, Alask	ent Soft berry Ln.			
Payment method: Cash on delivery	Shipping op	tion: DHL			
Product name	Units	Unit price	Unit discount	Tax	Subtotal
Nokia N82	4	490.00	29.40	276.36	2118.76
- Black	4	10.00	0.00	6.00	46.00
				Shipping: Total price:	
Tax name				Tax	summary
Sales tax					282.36
Order note:					

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.

Kentico CMS Desk Content My des Content My des Content Up Lew Delete Move Down	Tools Administration	Switch to Site Manager Site: E-commerce site User: Global Admi	inistrator v5.0.3688 Sign out
Content management	View mode Page Design Form Proper	Other	
News Products Cameras Cell phones Cell players Protebooks	E-commerce		t My account My wishlist shopping cart is empty
PDAs PCs How to buy Company Silverlight Special pages	starter site	Home News Products How to buy Company Silverlight	Global Administrator Sign out
, ⊲ opedarjages	Products » Cameras » Cell phones » Mos Players » Notebooks ¥ PDAs » PCs	Products / PDAS Status: (all) Manufacturer: (all) Gonly in stock Paging: (all) Add new product	Latest news 2/13/2008 Dear customers, our shop now supports payments through PayPal You can use this feature from this day. 2/13/2008
	Poll How did you find this site? Print advertising Link from another web site Search engine Vote	Asus A639 HP IPAQ 114 HP IPAQ hx2795 Pocket PC \$470.00 Add to cart \$389.00 Add to cart \$470.00 Add to cart \$415.00 Add to cart \$415.00 Add to cart \$415.00 Add to cart \$415.00 Add to cart	Dear customers. our company has become Apple partner so you can buy Apple's great products at our shop. Newsletter subscription E-mail:

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

		📄 Сору	👚 Up
New	Delete	🚔 Move	🕹 Down
	Cont	ent manager	ment

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

New document
Please select new document type:
Page (menu item)
Article
🕥 <u>Bloa</u>
腸 Event (booking system)
FAQ
🚍 <u>File</u>
la Folder
🙀 Image gallery
aligned a second
<u>News</u>
Notice
🐺 <u>Press release</u>
🚳 <u>Product - Camera</u>
Product - Cell phone
Product - Computer
area and a construct of the second se
Product - MP3 & MediaPlayer
International In
Simple article

Link an existing document

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 <u>Products</u> 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 **Gave** at the top to save your new product.

Getting	Started	17
---------	---------	----

E Save	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 Now
Publish to:	<u>Now</u>
Create a new pr Price:	900
Product	image:
110000	Upload: Browse
Descrip	Opioau.
	biowse

The new camera has been added to your product list.

HTC Touch Cruise



18



This chapter describes how to create a new product while creating new document. In **Kentico CMS**, you can also choose to create product from an already existing document, though.

All you have to do is to select a given document in the content tree and switch to the **Product** tab. Then check **Mark document as product**. By choosing **Select an existing product**, you can use an existing product as a template for a new product. By choosing **Create a new product**, you can create a new one from scratch.

2.3 Adding product options

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.

Kentico CMS Desk Cont		gn out
Tools	E-commerce	
BizForms	Orders Customers Products Product options Manufacturers Suppliers Discount coupons Discount levels Reports Configuration	
Blogs	The the option category	(
Custom tables	Actions Name - Selection type Enabled	
File import	Cell phones accessories Checkboxes - horizontal Yes	
📲 Forums 🌆 Groups		
Media libraries	Nokia 6300 - Color Dropdown list Yes	
📋 Message boards	Nokia N82 - Color Radiobuttons - vertical Yes	
Newsletters	Notebooks - AMD CPU Dropdown list Yes	
🥪 Polls 🐚 Reporting	Notebooks - DDR2 modules Dropdown list Yes	
Web analytics	Notebooks - HDD Dropdown list Yes	
	Notebooks - Intel CPU Dropdown list Yes	
	Operating systems Dropdown list Yes	
	PCs - Cases Dropdown list Yes	
	PCs - CD/DVD ROM/RW, BlueRay Dropdown list Yes	
	PCs - CPU Intel Dropdown list Yes	
	PCs - Graphics card Dropdown list Yes	
	PCs - HDD Dropdown list Yes	
	PCs - Memory modules Dropdown list Yes	
	PCs - Monitors Dropdown list Yes	
	PCs - Motherboards Dropdown list Yes	
	PCs - Sound cards Dropdown list Yes	
	Samsung SGH 1620 - Color Dropdown list Yes	
	✓ X Special PC accessories Checkboxes - horizontal Yes	

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

- 2. Click **New option category**.
- 3. Enter Color into the Display name and Code name text boxes and click OK.

Option categorie	es • New option category
Display name:	Color
Code name:	Color
	ок

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

Option categories + Color			
General Option	15		
Display name:	Color		
Code name:	Color		
Selection type:	RadioButtons in vertical layout	-	
Display price:		_	
Default option(s):	Black (+ \$0.00)		
	Silver (+ \$10.00)		
	Green (- \$10.00)		
Description:		*	
		$\overline{\mathbf{v}}$	
Default record text:			
Enabled:			
	ОК		

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

Option categories + Color					
General Options					
New product option	\$ 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.

Product options
• New product option

Product name:	Black	
Enabled:		
Product number:		
Description:	▲ B I \$≡ \$≡ 🍓 🙈	
		^
		E
		-
Price:	0	
Deventment		
Department:	General	•
Department: Manufacturer:	General (none)	- -
<u> </u>		
Manufacturer:	(none)	
Manufacturer: Supplier:	(none) (none)	
Manufacturer: Supplier: Public status:	(none) (none) (none)	
Manufacturer: Supplier: Public status: Internal status:	(none) (none) (none)	
Manufacturer: Supplier: Public status: Internal status: Availability (days):	(none) (none) (none) (none)	
Manufacturer: Supplier: Public status: Internal status: Availability (days): Product image URL:	(none) (none) (none) (none)	
Manufacturer: Supplier: Public status: Internal status: Availability (days): Product image URL: Package	(none) (none) (none) (none)	
Manufacturer: Supplier: Public status: Internal status: Availability (days): Product image URL: Package Package weight:	(none) (none) (none) (none)	
Manufacturer: Supplier: Public status: Internal status: Availability (days): Product image URL: Package Package weight: Package height:	(none) (none) (none) (none)	
Manufacturer: Supplier: Public status: Internal status: Availability (days): Product image URL: Package Package weight: Package height: Package width:	(none) (none) (none) (none)	
Manufacturer: Supplier: Public status: Internal status: Availability (days): Product image URL: Package Package weight: Package height: Package width: Package depth:	(none) (none) (none) (none)	
Manufacturer: Supplier: Public status: Internal status: Availability (days): Product image URL: Package Package weight: Package height: Package depth: Package depth:	(none) (none) (none) (none) Upload: Browse	

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.

Kentico CMS Desk Cont	ent My desk Too	ls Administration		Switch to Site	Manager Site: E	-commerce site 💌	User: Global Admin	istrator v5.0.3688	Sign out
ools	E-comm	erce							
BizForms	Orders Custo	omers Products Proc	luct options Manufactur	ers Suppliers	Discount coupons	Discount levels Repor	rts Configuration		
	Mew product								2
Content staging									
Re-commerce	Product name:								
🕞 File import	Product number	r							
- 齃 Forums - 🏭 Groups	Department:	(all my departments)		•					
- 🚜 Groups 	Public status:	(all)		•					
🔋 Message boards	Internal status:	(all)		•					
Newsletters	Sites:	(all)		•					
🥌 Polls 🐚 Reporting		Show							
Web analytics	Actions P	roduct name 🔺	Product number	Product price	Available items	Public status	Internal status	Enabled	
	- 🖉 💥 Ai	cer Aspire 3105WLMi		490	-10			Yes	
	1 🥒 🗱 Ai	cer configurator		899	-1			Yes	
	🥒 🗱 🛛 AI	cer configurator		899	2			Yes	
	🥒 🗱 🛛 Ai	cer Extensa 7620G		99	0			Yes	
	🥒 🗱 🛛 Al	ople iPhone		499	1	Featured products		Yes	
	AI	ople MacBook Air		2094	2			Yes	
	🥒 🗱 A:	sus A639		470	1			Yes	
	🥒 🗱 🛛 A:	sus F3U AP059C		999	1			Yes	
	🥒 💥 C	anon Digital Rebel XTi		597	0	Featured products		Yes	
	🥒 🗱 C	anon PowerShot A720 IS		195	95			Yes	
	🥒 💥 C	ompaq Presario		659	-1			Yes	
	2 🗶 C	onfigurable PC		0	0			Yes	

11. Switch to the **Options** tab and click the **Add categories** button. In the pop-up window, select **Color** product option category and click **OK**.

E-commerce								
Orders	Customers	Products	Product options	Manufacturers	Suppliers	Discount coupons		
Products	Apple MacB	ook Air						
General	Tax dasses	s Volume (discounts Optio	Documents				

The changes were saved.

The following categories with product options are assigned to the product:

	Category name						
	Color						
Remove selected		Add categories					

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 <u>Adding items to the</u> <u>shopping cart</u> chapter.

2.4 Customizing product categories

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

Kentico CMS Desk Content My desk	: Tools Administration	Switch to Site Manager Site: E-commerce site 🗨 User: Global Admir	nistrator v5.0.3688 Sign out
New Delete Move Down Content management	Edit Preview Live site View mode	List Search Other	0
E-commerce site Home News Products	Page Design Form Proper		0
How to buy Gompany Silverlight Social pages Silverlight Social pages	E-commerce		My account My wishlist shopping cart is empty
	Products	Home News Products How to buy Company Silverlight Products	Global Administrator Sign Out
ŀ	 Cameras Cell phones MP3 Players Notebooks PDAs PCs 	Status: [all] • Manufacturer: [all] • Only in stock Paging: [all] • Sorting: By name: A to Z • Filter	2/13/2008 Dear customers, our shoo now supports payments through Payera Lyou can use this feature from this day. 2/13/2008
	Poll How did you find this site? Referred by a friend Print advertising	Configure your Configure your notebook	Dear customers, our company has become Apple partner so you can buy Apple's creat products at our shop.
	C Link from another web site Search engine	Acer Aspire 3105WLMi Acer configurator Acer configurator \$490.00 Add to cart \$899.00 Add to cart Acer configurator Add to cart Acer configurator Add to cart \$899.00 Add to cart Acer configurator Add to cart Acer configurator Add to cart \$200 Edit	E-mail:

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



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



Link an existing document

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

Save and create another	Spell check				
Page name: Plasma TVs					
O Use page template O Inherit from page	arent page 🛛 🔘 Create a blan	k page			
☐ · · · · · · · · · · · · · · · · · · ·	Template name:		Sear	ch account	•
Blogs				\frown	
الله Events الله FAQs الله Forums الله General	Lugan Replandan				
	Ecommerce - New registration	Ecommerce - News list	Ecommerce - Print	Ecommerce - Products	=
Membership and security News Newsletter Offices			no image	Underste	
ିଲ୍ଲୀ Personal Site ିଲ୍ଲୀ Press releases ିଲ୍ଲୀ Products	Ecommerce - Search page	Ecommerce - Shopping cart	Ecommerce - Silverlight product list	Ecommerce - Unsubscribe	Ŧ
Templates with editable regio Wiki	Ecommerce - Produ	ucts			

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

		📄 Сору	👚 Up
New	Delete	🚔 Move	Down
	Conte	ent managei	ment

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

26



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 in New at the document action toolbar.



2. Click S Link an existing document at the bottom.

New document
Please select new document type:
Page (menu item)
Article
灯 Blog
陽 Event (booking system)
2 FAQ
File
la Folder
🔝 Image gallery
🍇 Job opening
Mews News
Note Contraction of the second
🕞 <u>Press release</u>
🚳 <u>Product - Camera</u>
Product - Cell phone
🖏 <u>Product - Computer</u>
area and a construct of the second se
圆 <u>Product - MP3 & MediaPlayer</u>
🖉 <u>Product - PDA</u>
Simple article
Link an existing document

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

🕖 Link document Webpage Dialog		×
Solution Link document		
Content		
Content		
		2
Site: E-commerce site	Name: Search 🎯 Parent docu	ument
🖃 💮 E-commerce site	There are no documents to display.	
🗈 📄 News		
 Products Cameras 		
Cell phones		
📄 📄 Notebooks		
i 📄 📄 13"		
HP configurator		
Apple MacBook Air Toshiba Satellite P		
→ 14"		
17"		
De PDAs		
● PCs Plasma TVs		
How to buy		
🕀 📄 Company	Target location: /Products/PCs	
Silverlight	Documents to link:	
😠 🔄 Special pages 🕀 📹 Files	/Products/Notebooks/13-/Apple-MacBook-Air	*
	n roducisholebooks romppremiacibook-nii	
		-
۰		
	Link Car	ncel
http://localhost/Manuals/CMSFormControls	s/Selectors/InsertImageOrMedia/Default.aspx?output=linkdoc&content_site=EcommerceSite 🗣 Local intranet Protected Mode: Off	.4

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.

Kentico CMS Desk Cor	ntent My d	lesk Tools	Administration		Switch to Site	Manager Site: E	-commerce site 💌	User: Global Admir	istrator v5.0.3688	Sign out
ols		E-comme	erce							
Abuse report			\frown							
BizForms Blogs	Orde	rs Custor	mers Products Produ	ct options Manufactur	ers Suppliers	Discount coupons	Discount levels Repo	rts Configuration		
Booking system	😂 N:	ew product								6
M Content staging										
Custom tables	Prod	uct name:								
File import	Prod	uct number:								
Se Forums	Dep	artment:	(all my departments)		•					
🍇 Groups	Publ	ic status:	(all)		•					
🜆 Media libraries 📋 Message boards	Inter	nal status:	(all)		•					
a Newsletters	Sites	c	(all)		•					
S Polls			Show							
Reporting										
🗃 Web analytics			oduct name 🔺	Product number	Product price	Available items	Public status	Internal status	Enabled	
		••	er Aspire 3105WLMi		490	-10			Yes	
			er configurator		899	-1			Yes	
	6	🗶 Aci	er configurator		899	2			Yes	
	Í	🗶 Aci	er Extensa 7620G		99	0			Yes	
	Í	🗶 Ap	ple iPhone		499	1	Featured products		Yes	
	Í	🗶 Ap	ple MacBook Air		2094	2			Yes	
	Í	🗙 As	us A639		470	1			Yes	
	Í	🗶 As	us F3U AP059C		999	1			Yes	
	Í	🗶 Ca	anon Digital Rebel XTi		597	0	Featured products		Yes	
	Í	🗶 Ca	anon PowerShot A720 IS		195	95			Yes	
	6	🗶 Со	ompaq Presario		659	-1			Yes	
	6	X Co	onfigurable PC		0	0			Yes	
		🗶 Cri	eative ZEN		150	-6	Featured products		Yes	
	Í	X Cr	eative Zen Stone		50	0			Yes	
	1	🗶 En	ngeton M6 Cult		145	0			Yes	

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



3. From the **Public status** drop-down menu, choose **Featured products** and click **OK** at the bottom.

General	Tax classes	Volume discounts Options Documents							
-									
Product nar	me:	Apple iPhone							
Enabled:									
Product nur	mber:								
Descriptio	n:								
		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.							
Price:		499.00							
Departmen	t	Phones							
Manufactur	er:	Apple							
Supplier:		(none)							
Public statu	IS:	Featured products							
Internal stat	tus:	(none)							
Availability ((days):	0							
Product ima	age URL:	V k iphone_hero.jpg Upload: Browse							
Package									
Package w	eight:								
Package he	eight:								
Package wi	idth:								
Package de	epth:								
Inventory									
Available ite	ems:	1							
Sell only if it	tems are availa	able:							
		ок							

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 the <u>Random products</u> 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 **Product list** 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					
🦓 Web part properties (Datalist)			Occumentation		
General Layout					
Default Visibility Content Content filter Transformations	Combine with default culture:	 ⊘ Yes ⊘ No @ Use site settings 	^		
Layout Paging	Culture code:	Select Clear	E		
Relationships System settings	Maximum nesting level:	▶ _1			
No data behavior	ORDER BY expression:	SKUPrice ASC			
Editing buttons HTML Envelope	Select only published:	• 🗸			
Time zones	Select top N documents:	•			
Partial caching	Site name:	Select Clear			
	WHERE condition:	(NodeSKUID IS NOT NULL) AND (SKUEnabled = 1			
	Columns:	•			
	Filter out duplicate documents:	•			
	Filter name:	ProductFilter	-		
Refresh content		OK Cancel	Apply		
http://localhost/Manual	http://localhost/Manuals/CMSModules/PortalEngine/UI/Webparts/WebPartProperties.aspx?al 🗣 Local intranet Protected Mode: Off				

36

CMS Desk - Web Part properties Webpage Dialog				
a Web part properties (Datalist)				
General Layout				
Default	Paging	•		
Visibility	Eachte an class			
Content	Enable paging:	► V		
Content filter	Paging mode:	Query string		
Transformations	r aging mode.			
Layout	Navigation buttons:	► Split		
Paging				
Relationships	Pager position:	► Bottom		
System settings No data behavior				
Editing buttons	Page size:	▶ 16		
HTML Envelope		•		
AJAX	Query string key:			
Time zones	Show first and last buttons:			
Partial caching				
	HTML before:	>		
		+		
	HTML after:			
	HTML aller.	۲		
	Decute position:	► Top		
	Results position:	► Top		
	Numbers separator:	Þ -		
Refresh content		OK Cancel Apply		
http://localhost/Manuals/	/CMSModules/PortalEngine/UI/Webpa	arts/WebPartProperties.aspx?al 🔍 Local intranet Protected Mode: Off		

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.

Kentico CMS Desk	Switch to Site Manager Site: E-commerce site User: Global Administrator v5.0.3888 Tools Administration	Sign out
New Delete Move Down Content management	Edit Preview Live site List View mode	0
Company Compa	Page Design From Properties Image: Save Scale Scale	0
} () silvenign: a ∰ Special pages a ∰ Files	Office name: New York Office Company name: Our company name Address line 1: Address line 1 Address line 2: Image: Company name City: City ZIP code: ZIP State: Image: Company name Phone: 123-456-789 E-mail: sales@localhost.local	E
	Office directions:	

- 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.

🕞 Save	Spell check			
🔄 🔄 Source 🛛 🐧	X 🖻 🖻 🖻 📾 🥔 🗠 🖂 🖊 🕼 🧱 4	7 B I U	$ABC \mid \mathbf{x}_2 \mid \mathbf{x}^2 \mid \frac{4}{3} \equiv \frac{1}{2} \mid \underline{\underline{\mathbf{x}}} \mid \underline{\mathbf{x}}$	(= = = = 🍓 🥼 🕸
i 📷 📑 📰 🚈	😔 🦚 📇 🗉 🔚 🔙 🕗 😓 🛗			
Style	Format Font	▼ Size	• Ta• 🆓 • 🔲 📆	
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@localhost.local]		
Office directions:				E

Please note: You can change the transformation of the company detail at CMS Desk -> Content -> Ecommerce Site -> Company -> New York Office -> Design -> <edit CompanyDetails> -> Transformations -> Transformation. 40

Kentico CMS Desk Content My d	ladi. Tarih Administration	Switc	h to Site Manager Site: E-commerce	e site 💌 User: Global Administrati	or v5.0.3688 Sign ou
Contant My o					
w Delete Ave Vove Down Content management	Edit Preview Li View mo				
E-commerce site					Display web part content
B-commerce site	Page Design Form			-	Display web part content
News				And and a second division of the second divis	and the second division of the second divisio
Products		Search Home News P	roducts How to buy Company	Silverlight Glob	al Administrator Sign out
How to buy		/Company/New York Off	ice - page template: Ecommerce - Comp	anv	
New York Office	Products	▼ zoneHeader			4
Silverlight	» Cameras	Title			•
) 🏐 Special pages	 Cell phones MP3 Players 				
🛛 🟐 Files	» Notebooks	zoneContent		🕂 🔻 zoneMap	+
	>> PDAs >> PCs	 CompanyDetails 	v York Office	🔻 GoogleMaps 🎲	
	» Plasma TVs		company name	Ridaewood	
	🖉 CMS Desk - Web Pa	rt properties Webpage Dialog			x
	Web part pro	operties (Repeater)			Documentation
	The part pro				Documentation
	General Layout				
	Default	Transformations			^ S8
	Visibility				oint
	Content	Transformation:	Ecommerce.Transformations.Ec	com Select Edit	Vec
	Content filter		•	Select Edit	
	Transformations	Alternating transformation:	•	Select Edit	
	Paging	Selected item transformation:		Select Edit	
	Relationships	Selected item transformation.	•	Select Luit	Va
	System settings	Item concreter:			21(3)
	No data behavior Editing buttons	Item separator:		· · · ·	- -
	HTML Envelope	Nexted evolution ID:			
	AJAX	Nested controls ID:	•		
	Time zones				
	Partial caching	Paging			
		Enable posing:			
		Enable paging:	► []]		
		Paging mode:	Query string	•	
		. Jana mode.	Liver, coming		
		Navigation buttons:	 Split 	•	
		Pager position:	Bottom	-	-

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 and create another	Spell check			
🔄 Source 🚺	X B B B B 6 4) IN N M 14	🗒 🖉 B I 🗓	J ABC ×2 ×2 5Ξ Ξ €	: ;; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
	😀 🐗 📇 🔳 🔜				
style	▼ Format	▼ Font	▼ Size	• Ta• 🌆 • 🔲 📆	
Office name:	San Francisco Office				
Company name:					
Address line 1:	23 New Montgomery S	t			
Address line 2:					
City:	San Francisco				
ZIP code:	94105				
State:	CA				
Country:	United States				
Phone:					
E-mail:					
Office directions:					E
Latitude:					
Longitude:					
Office photo:	Actions Update	Name			Size
	🥒 🗱 🛛 💿	尾 SFoffice.png			23 kB



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 Customizing the product fields

3.1 Defining a new product type

44

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

Kentico CMS Site Manager	Sites Admini	istration Settings Developmen	Licenses Support	Switch to CMS Desk	User: Global Administrator v5.0.3688	Sign out
Development Pategories	Docum	ent types				0
Countries	New docume	nt type				
CSS stylesheets Cultures Custom tables Custom tables Cocument types Cument types Cocument types	Display name: Code name:	LIKE V LIKE V Show				
Inline controls	Actions	Display name 🔺	Code name			
Modules	2 🗙 📑	Article	CMS.Article			
Page layouts	2 🗙 📑	Blog	CMS.Blog			
Page templates	1 🖉 🗙 📑	Blog month	CMS.BlogMonth			
Relationship names	1 🖉 🗱 📑	Blog post	CMS.BlogPost			
Tag groups	1 🖉 🗙 📑	Cell phone	CMS.CellPhone			
🚷 Time zones	1 🖉 🗶 📑	Community - Transformations	Community.Transformations			
UI cultures Web part containers	· 🖉 🗙 📑	E-commerce - Transformations	Ecommerce.Transformations			
Web parts	2 🗙 📑	Event	CMS.Event			
Web templates	1 🖉 🗙 📑	Event (booking system)	CMS.BookingEvent			
Widgets	2 🗙 📑	FAQ	CMS.Faq			
Workflows	1 🖉 🗙 📑	File	CMS.File			
	N 💥 🚺	Folder	CMS.Folder			
	N 🗙 📑	Image gallery	CMS.ImageGallery			
	N 💥 🚺	Job opening	CMS.Job			
	N 🗶 📑	Knowledge base article	CMS.KBArticle			
	N 💥 🚺	Laptop	CMS.Laptop			
	1 🗶 🗶 📑	News	CMS.News			
	N 🗙 📑	Office	CMS.Office			
	N 🗙 📑	Page (menu item)	CMS.Menultem			
	1 🖉 💥 📑	Pager transformations	CMS.PagerTransformations			

- 2. Click the **Wew Document Type** link.
- 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		de name (it will be used in your code when necessary)	
	Plasma TV CustomProduct namespace	television document type	
		(Next >

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

Step 2	Data type Please choose document data type. If you choose a document type with custom attributes you will also need to supply names of the new database table and its primary key.
Table name: Primary key name	e has custom fields CustomProduct_television e: TelevisionID e is only a container without custom fields
	Next>

5. In the **Step 3**, you are asked to define attributes for the new document type. Click **New Attribute** (+) and enter:

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

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

		com attributes of the docum roduct weight, press relea:	nent type and their appearance in the editing form. You se text, etc.	can define att	ributes, such as
TelevisionID New attribute	All	atabase ttribute name: ttribute type: ttribute size: Ilow empty value: ttribute default value: Display attribute in the en- eld ield caption: ield type: ield description:	Product name		
					Next >

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.

	e define d	custom attributes of the doc r, product weight, press rel	rument type and their appearance in the editing form. You can define attributes, such as ease text, etc.
TelevisionID TVName New attribute	↑ ↓ ↓ ↓ ↓	Database Attribute name: Attribute type: Attribute size: Allow empty value: Attribute default value: I Display attribute in the Field Field caption: Field type: Eield description:	TVScreenType Text 100 C C C C C C C C C C C C C C C C C C
			OK Next >

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**.

Step 3		custom attributes of the doci r, product weight, press rele	ument type and their appearance in the editing form. You c ease text, etc.	an define attributes, such as
TelevisionID TVName TVScreenType New attribute	↑ ↓ ♀ ↓ ×	Database Attribute name: Attribute type: Attribute size: Allow empty value: Attribute default value: If Display attribute in the Field Field caption: Field type: Field description:	TVScreenSize Integer number editing form Screen size in inches Text box	
				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 s	ource: TVName
	Next>

9. In the **Step 5**, click the **Add document types** button and select the **Page (menu item)** document type. Click **Next**.

Step 5 Parent types Please select document types under which this document template can be placed.	
Document type name	
Page (menu item) (CMS.MenuItem)	
Remove selected Add document types	
	Next>

10. Now make sure that you have assigned the document type to the Ecommerce site and click Next.

Step 6	Sites Please select sites where this document type can be used:
Site nam	ie
E-comm	erce site
Remove sele	ected Add sites
	Next>

11. In the **Step 7**, you are asked to specify how documents of this type will be indexed and displayed in the search results. For more information on these settings, please refer to the <u>Settings for particular</u> <u>object types</u> topic of Kentico CMS Developer's Guide. Make your choice and click **Next**.

Title field: DocumentName Content field: DocumentContent Image field: (none) Date field: DocumentCreatedWhen Set automatically Field name Content Searchable Tokenized Custom search name TelevisionID V TVName V	t search module.	ds for Smart se	ch options e set search fiel		Step 7
TelevisionID Image: Constraint of the constraint of th			ent	cumentConte ne)	Content field: Doc Image field: (non Date field: Doc
TVName V V	d Custom search name			Content	Field name
					TelevisionID
TVScreenType 🔽 🔲 🖳					TVName
					TVScreenType
TVScreenSize					TVScreenSize

12. The wizard has finished the configuration of the new document type. It has automatically created not only the database table, but also the SQL queries for SELECT, INSERT, UPDATE, DELETE operations and a default transformation.

Click Finish.

Step 8	The wizard has finished	
The new documer The new editing fo The document typ The sites were se The default querie The default ASCX The default permi: The default jermi:	es were added among allowed child types of the new document type. lected where this document type can be used. es were created. transformations were created. ssion names were created.	
		Finish

12. You will be redirected to the General tab of the product type editing interface. Enable the **Document is product type** option and click **OK**.

Document types Plasma IV						
General Fields Form Trans	sformations Queries Child typ	es Sites E-commerce	Alternative forms	Search fields	Documents	
Document type display name:	Plasma TV					
Document type code name:	CustomProduct	.te	television			
	namespace	do	cument type			
Table name:	CustomProduct_television					
New page:						
Editing page:						
Editing form:						
Preview page:						
List page:						
Use publish from/publish to:						
Show template selection:						
Default page template:		Select	Clear			
Behaves as Page (menu item) typ	e: 🔲					
Document is product type:						
	ОК					

13. 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.

<u>@</u>	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 <u>Adding product custom</u> fields chapter.



Changing document type icon

The default icon is created with the new document type. Should you want to replace this icon with your own, go to <your web project folder>
\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.

Kentico CMS Site Manager	Sites Administration Settings Development Licenses Support	Switch to CMS Desk User: Global Administrator v5.0.3688 Sign out
 Kentico Site Manager Development Categories Countries Custow tables Custow tables Custow tables Form controls Modules Notifications Page taputs Relationship names System tables Tag groups Time zones Web parts Web tamplates Widgets Workflows 	Sites Administration Settings Development Licenses Support Document type properties Document types > Plasma TV General Fields Form Transformations Queries Child types Sites Alternative forms Wew transformation Actions Transformation name - Image: Sites Default Image: Sites Preview	0

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:
```



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	Silverlight	
------	------	----------	------------	---------	-------------	--

Products / Plasma TVs / LG plasma TV 42PC51

Product name: LG plasma TV 42PC51

Screen type: Plasma

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.



In case you add namespace into the **web.config** file, you don't have to specify it when calling its objects in transformations. Therefore, instead of calling **CMS.GlobalHelper**. **ResHelper.GetString("MyCustomString")**, you could call just **ResHelper.GetString** ("MyCustomString").

<u> </u>	
1	
1	

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 images to product gallery.

The images in the product gallery are displayed using the **Attachments image gallery** web part. Therefore, it is essential that you have placed this web part into your product page template.

 AttachmentImageGallery 	
 SendToFriend 	
ProductForum	

The images of a product are stored as attachments to the document. To add images to the product, go to CMS Desk -> Content -> Edit -> Properties -> Attachments tab and select the product you want to add the images to.



By clicking the **New attachment** link, a dialog for uploading files appears where you can add images. Just select the desired image and click **Open**. Repeat the procedure for all images you want to attach.



The images are stored as attachments of the product.



You can arrange the images in the attachment using the **Up** ($^{\circ}$) and **Down** ($^{\downarrow}$) icons. Images can be edited via the **Edit** (\swarrow) icon, or deleted by clicking the **Delete** (\thickapprox) icon.

When the images are attached to the product, you can display them on the live site within the **Attachments image gallery** web part.



3.4 Adding product custom fields

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

58

Kentico CMS Site Manager	Sites Adn	ninistration Settings Developme	ent Licenses Support	Switch to CMS Des	k User: Global Administrator v5.0.3688	Sign out
Development Gategories Outries	Syste	m tables				0
GSS stylesheets	Actions	Class display name 🔺	Class name	Table name		
Cultures	1	Ecommerce - Customer	ecommerce.customer	COM_Customer		
Custom tables Document types	P	Ecommerce - Order	ecommerce.order	COM_Order		
E-mail templates	1	Ecommerce - Order item	ecommerce.orderitem	COM_OrderItem		
Sorm controls	1	Ecommerce - Shopping cart	ecommerce.shoppingcart	COM_ShoppingCart		
Inline controls		Ecommerce - Shopping cart item	ecommerce.shoppingcartitem	COM_ShoppingCartSKU		
	1	Ecommerce - SKU	ecommerce.sku	COM_SKU		
Page layouts		Group	Community.Group	Community_Group		
당 Page templates	1	Media file	media.file	Media_File		
Relationship names		Newsletter - Subscriber	newsletter.subscriber	Newsletter_Subscriber		
a lag groups	1	User	cms.user	CMS_User		
Time zones		User - Settings	cms.usersettings	CMS_UserSettings		
 UI cultures Web part containers Web parts Web templates Widgets Workflows 	•					

2. Click Edit next to the Ecommerce - SKU.

Actions	Class display name 🔺	Class name	Table name
P	Ecommerce - Customer	ecommerce.customer	COM_Customer
1	Ecommerce - Order	ecommerce.order	COM_Order
P	Ecommerce - Order item	ecommerce.orderitem	COM_OrderItem
P	Ecommerce - Shopping cart	ecommerce.shoppingcart	COM_ShoppingCart
1	Ecommerce - Shopping cart item	ecommerce.shoppingcartitem	COM_ShoppingCartSKU
\oslash	Ecommerce - SKU	ecommerce.sku	COM_SKU
P	Group	Community.Group	Community_Group
P	Media file	media.file	Media_File
P	Newsletter - Subscriber	newsletter.subscriber	Newsletter_Subscriber
P	User	cms.user	CMS_User
P	User - Settings	cms.usersettings	CMS_UserSettings

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		
T	Attribute type:	Text	•	
J	Attribute size:	100		=
Ť.,	Allow empty value:	\checkmark		
	Attribute default value:			
-				
	Display attribute in the ed	iting form		
	Field			
♣	Field caption:	Product color		
			_	
×	Field type:	Text box .	-	
			*	Ŧ
			ЭК	

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



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

E-commerce						
Orders	Customers	Products	Product options	Manufa	cturers	
Products	Products Acer Aspire 3105WLMi					
Genera	Custom fie	elds Tax o	lasses Volume dis	scounts	Options	
Product color: Blue						
		ок				

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 <u>Customizing product design</u> 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:

[C#]

```
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"));
```



Customizing web site design

4 Customizing web site design

62

4.1 Changing the header and menu (master page)

Changing a logo in the header

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

Kentico CMS Desk Content My des	Switch to Site Manager Site: E-commerce site Vuser: Global Administrator v5.0.3688 Sign out	
New Delete Move Down Content management	Edit Preview Live site List View mode	
E-commerce site	Page Design Form Master page Properties	>
Home News Products	R Save Spell check	
 Products How to buy Company 	図 Source Q, X 時 臨 ि @ @ @ ♡ ♡ M 公 图 2 U # X x x 日 日 伊 伊 書 書 書 ■ @ @ @ \$	
	style Format Font Size V Tor Og V	
🕣 🔄 Special pages 🕣 🗐 Files	Sign in to CMS Desk. Sign in to CMS Site Manager. The default account is administrator with blank password.	^
	Shopping cart My account My wishlist	
	E-commerce Starter site	
		Е
(Search Home News Products How to buy Company Silverlight Global Administrator Sign out	
	Products	
	» Cameras	
	>> Cell phones >> MP3 Players	
	>> Notebooks >> PDAs	
	» PCs » Plasma TVs	
	// Plasma TVS	
	Dall	
	Poll How did you find this site?	
	© Referred by a friend	
	O Print advertising	
		Ŧ

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

E-commerce	Electronics for yo	u	Shopping cart My account My wishlist	2
starter site	1		***	2
Search	Home News Produc	ts How to buy Company	Silverlight Global Administrator Sign out	

3. In the web page dialog, select **Files** in the content tree and click the **New file** button at the top-left.



4. Find the image you want to upload and click **Open**.

64

Organize 🔻 New fol			= (
🔆 Favorites	Name	Date modified	Туре
📃 Desktop	CMSModules	3.2.2010 17:47	File folder
〕 Downloads	퉬 Design	3.2.2010 17:47	File folder
📃 Recent Places	DocumentTypeIcons	12.2.2010 8:55	File folder
	퉬 FileIcons	3.2.2010 17:47	File folder
🥽 Libraries	퉬 Flags	3.2.2010 17:47	File folder
Documents	퉬 General	3.2.2010 17:47	File folder
🚽 Music	퉬 Marks	3.2.2010 17:47	File folder
Pictures	퉬 Objects	3.2.2010 17:47	File folder
📑 Videos	퉬 Others	3.2.2010 17:47	File folder
	퉲 RTL	3.2.2010 17:47	File folder
💻 Computer	Powered_by_kentico.gif	21.12.2009 9:53	GIF File
	Powered_by_kentico2.gif	21.12.2009 9:53	GIF File
📬 Network	🛋 rss.gif	21.12.2009 9:53	GIF File
	•		

5. Click Select.

🙋 Insert Webpage Dialog	
🧊 Select image	
Attachments Content Media libraries	Web
New folder A New file	List Tiles III Thumbnails
Site: E-commerce site F-commerce site Home From Rews From Rews	Ceneral URL: Manuals/Files/Powered by kentico aspx Writh: 120 Height 42 *** Kentico
http://localhost/Manuals/CMSFormControls	/Selectors/InsertImageOrMedia/Default.aspx?output=url&content=img&documentid=51&ed 💊 Local intranet Protected Mode: Off

6. Now click Save.

66



You've just publish a new logo on your website.

Removing the log-on bar

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

Kentico CMS Desk	k Tools Administration	Switch to Site Manager Site: E-commerce site 💌	User: Global Administrator v5.0.3688 Sign out
Image: Copy Image: Copy New Delete Image: Content management		ist Search Other	0
E-commerce site	Page Design Form Master page	ge Properties	🗹 Display web part content 🛛 🕢
Home News	▼ / - page template: Ecommerce maste	er page	
Products	▼ zoneTopInfo		÷
How to buy	▼ txtTrialInfo 🎡	Sign in to <u>CMS Desk</u> . Sign in to <u>CMS Site Manager</u> . The default account is administrat	
Silverlight	▼ zoneTop		v zoneTopShoppingcart
🕣 🔄 Special pages 🕣 🟐 Files	Topimage 🎲		ShoppingCartPreview Wunt My wishlist
💿 🛁 ries	E-commerce starter site	Electronics for you	Your shopping cart is empty
		zoneTopContent	zoneTopRight
		🔻 cmslistmenu 🎡 Products How to buy Company Silve	erlight SignOutButton 🐼 Sign out
l	Search		CurrentUser 🎡
	LeftProductMenu Products	zoneSubContent	÷
	» Cameras	SubpagePlaceholder 3	
	 Cell phones MP3 Players 		
	» Notebooks		-
	>> PDAs >> PCs		
	» Plasma TVs		
	▼ poll 🎯		
	How did you find this site?		
	C Referred by a friend		
	O Print advertising		

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

Page Design Form	Master p	age Properties	☑ Display web part content
I - page template: Econ	nmerce ma	iter page	
zoneTopInfo			
< txtTrialInfo 🍥		Sign in to <u>CMS Desk</u> . Sign in to <u>CMS Site Manager</u> . The o	default account is administrator with blank password.
Configure			▼ zoneTopShoppingcart 🔂
Up Down Move to zone Move to zone Duplicate web part Remove	rce site	Electronics for you	ShoppingCartPreview unt My wishlist Your shopping cart is empty
▼ zoneLeft ▼ SearchBox 🎲 Search	•	▼ zoneTopContent ▼ cmslistmenu 🛞 Products How to bu	y Company Silverlight

3. Click **OK** to remove the bar from your website.



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

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.

Kentico CMS Desk Content My des	sk Tools Administration	Switch to Site Ma	anager Site: E-commerce site 💌	User: Global Administrator v5.0.3688 Sign out
New Delete Move Down Content management	Edit Preview Live site View mode	List Search Other		0
C-commerce site Home News Products How to buy	Page Design Form Master V /- page template: Ecommerce ma v zoneTopInfo v zoneTop			Display web part content O
ig - in Company ig - in Silverlight ig - in Special pages ig - in Files	TopImage	Electronics for you		ShoppingCartPreview Int My wishlist Your shopping cart is empty
	✓ zoneLeft ✓ SearchBox Search ✓ Search ✓ LeftProductilenu ✓ VeftProductilenu ✓ VeftProductilenu ✓ Notebooks × Notebooks × POAs × PCs × Plasma TVs ✓ poli ✓	zoneTopContent Add web Dar Properties zoneSubContent SubpagePlaceholder	How to buy Company Silvert	ight v zoneTopRight v SignOutButton v Sign out
	How did you find this site? C Referred by a friend Print advertising Link from another web site			-

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	properties Webpage Dialog		×
📸 Web part proj	perties (Static text)		Documentation
General			
Default	Show for document types:	Select Clear	•
Visibility Content	Display to roles:	Add roles Clear	
HTML Envelope AJAX Time zones	Content		
Partial caching	Text:	Season discount 10% on all	
	Encode text:	•	E
	Resolve dynamic controls:		
	HTML Envelope		
	Web part container:	► (none)	
	Web part container title:		
	Content before:	•	-
Refresh content		OK Cancel	Apply
http://localhost/Manuals/	/CMSModules/PortalEngine/UI/Web	parts/WebPartProperties.aspx?al 💊 Local intranet Protected Mode: Off	

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





4.2 Changing colors using CSS styles

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

Kentico CMS Site Manager				Switch to CMS Desk	User: Global Administrator v5.0.3688	Sign out
velopment		istration Settings Developme	Licenses Support			
Categories		riesneets				
Countries	Mew CSS styl	esheet				
CSS stylesheets						
Cuitures						
Custom tables	Actions	Display name 🔺	Code name			
Document types	1 🗶 🖉	Ecommerce site	EcommerceSite			
E-mail templates Form controls	2 🗙 🐻	Ecommerce site printer styles	EcommerceSitePrinter			
Inline controls	2 🗙 🚺	Personal Site	PersonalSite			
Modules	/ 🗙 📑	Personal Site - Blue	PersonalSiteBlue			
Notifications	2 X 📑	Personal Site - Green	PersonalSiteGreen			
Page layouts	/ × 5	Personal Site - Red	PersonalSiteRed			
 Time zones U cultures Web parts Web templates Web templates Widgets Workflows 						

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

Actions	Display name 🔺	Code name
ØX 6	Ecommerce site	EcommerceSite
N 🗙 🐻	Ecommerce site printer styles	EcommerceSitePrinter
/ 🗙 🐻	Personal Site	PersonalSite
N 💥 📑	Personal Site - Blue	PersonalSiteBlue

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


4. Go to **CMS Desk** and switch to the **Preview** mode. You can see that the background of the Ecommerce website is yellow.



Part V

Integration with your existing Kentico CMS web site

5 Integration with your existing Kentico CMS web site

5.1 Overview

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

- **Shopping cart** displays the shopping cart content and ensures the check-out process. For more info please see the <u>Shopping cart</u> 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 <u>Shopping cart preview</u> 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 <u>My account</u> chapter.
- **Wishlist** displays the wishlist of the currently logged-on user. For more info please see the <u>Wishlist</u> chapter.
- **Similar products by sale** displays products which were purchased together with the current product by previous customers. For more info please see the <u>Similar products by sale</u> chapter.
- **Random products** displays random N products that correspond to the criteria specify in the content filter. For more info please see the <u>Random products</u> 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 <u>Top N</u> <u>products by sales</u> 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 website 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

76

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.

E-commerce starter site	Electronics for you Your shopping cart is empty		
Search	Home News Products How to buy Company Silverlight Global Administrator Sign out		
Products	My Account		
» Cameras » Cell phones	Details Addresses Orders Credit Change password Subscriptions		
 » MP3 Players » Notebooks 	First name: Global		
» PDAs	Last name: Administrator		
» PCs	Company account:		
	E-mail administrator@localhost.local		
Poll	Phone:		
How did you find this site?	Fax		
C Referred by a friend	Preferred currency: U.S. Dollar		
O Print advertising	Preferred shipping option: (none)		
C Link from another web site	Preferred payment method: (none)		
O Search engine	Country/state: (none)		
Vote	ОК		
Quick links			
 <u>How to buy</u> <u>Company</u> <u>News</u> <u>Home</u> 			
Kentico			

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

Kentico		Switch to Site Manager Site: E-commerce site Vuser: Global Administrator v5.0.3688 Sign out
CMS Desk Content My des		
New Delete Aver Down	Edit Preview Live site List	Search 2
Content management	View mode	Other
E-commerce site	Page Design Form Properties	🗹 Display web part content 🛛 🥹
Home	Sig	in to CMS Desk. Sign in to CMS Site Manager. The default account is administrator with blank password.
Products		Shopping cart My account My wishlist
How to buy	E-commerce	Electronics for you Provide The Provide Provid
📄 Silverlight 📄 🍓 Special pages	starter site	
My Account		***
	Search	ome News Products How to buy Company Silverlight Global Administrator Sign out
···· 📄 Search	▼/!	pecial pages/My Account - page template: Ecommerce - My account
······································	Products	zoneContent
···· Shopping Cart	» Cameras » Cell phones	editabletextHeader 🎲
Order Completed Temporary Payment Page	» MP3 Players	MyAccoun
🕢 😋 Files	» PDAs	Web Part properties Webpage Dialog
		art properties (My account)
	Poll	ayout
	How did you find this Default	
	Referred by a friend Visibility	Visibility
	Print advertising Personal sett	ngs Visible: ► ▼
	C Link from another we Ecommerce Other tabs	
	O Search engine Layout	Hide on subpages: • 🕅
	Vote HTML Envelop	Show for document types:
	Quick links Time zones	
	How to buy Partial cachin	Display to roles: • Add roles Clear
	» Company » News	
	» Home	Personal settings
		Display personal settings:
		Form name: Crms.user.EditProfile Select
		Christiano. Peristader. Lana Tomo Solect
		Allow user to edit field visibility:

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	Indicates if order tracking number should be visible in the order list.

number	
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:



Content filter main properties

Product public status	Public status of products which should be displayed.
Product internal 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.
Тор N	The 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 expression	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 <u>Displaying</u> <u>featured products</u> chapter.

Sign in to CMS Desk. Sign in to CMS Site Manager. The default account is administrator with blank passw Shopping cart | My account | My wishlist Electronics for you **E-commerce** Your shopping cart is empty starter site Search News Products How to buy Com Sign In Products / Cell phones / Motorola V3 Razr Products Similar product Nokia 630 » Cameras Motorola V3 Razr Print /日 Cell phones » MP3 Players » Notebooks Parameters: Sony Ericsson W800 \$ 175.00 » PDAs Width: 98 53 » PCs Height R ndom products Weight(g): 95 Display type: TFT 262k Display resolution:176 × 220 TFT 262k colors Latest news RSS Bluetooth yes no yes no no no no Poll IrDA[.] 2/13/2008 How did you find this site? GPRS EDGE: HSCSD Referred by a friend Dear customers, our HSCSD: 3G: Wi-Fi: Java: Built-in camera: MP3 player. shop now supports payments through PayPal. You can use rts payments O Print advertising yes yes no Link from another web site 2/13/2008 Search engine Dear customers, our company has become Apple partner so you can buy Apple's great products at our Our price: \$ 130.00 Vote Cell phones accessories Quick links Car charger (+ \$ 5.00) Headset (+ \$ 70.00) Leather case (+ \$ 10.00) How to buy Company News Home Newsletter subscription 🎁 Add to w 🛛 🦉 Add to 1 E-mail: Description Motorola's new RAZR V3 is the essence of advanced technology and superlative design. At only 13.9 mm thin, 53 mm wide (the width of a credit card) and 98 mm long, it is one of the slimmest phones on the market yet still rich in functions, performance excellence and design innovation. It credites the user with a their descence wardinger. Form the insurable methods the functions to the superlate for the source of the slim.

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.MediaPlayer;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 <u>CMS Desk</u> . Sign in to <u>CMS Site Manager</u> . The default account is administrator with blank password.	
E-commerce starter site		t My account My wishlist shopping cart is empty
Products	Home News Products How to buy Company Silverlight News	Global Administrator Sign out
 » Cameras » Cell phones » MP3 Players » Notebooks » PDAs » PCs 	PayPal payment support Dear customers, our shop now supports payments through PayPal. You can use this feature from this day. Apple products	Acer Extensa 7620G \$99.00 Image: System of the
Poll How did you find this site?	Dear customers, our company has become Apple partner so you can buy Apple's great products at our shop.	Samsung SGH i620 \$650.00
 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.	Latest news RSS
C Link from another web site Search engine Vote	RSS	2/13/2008 Dear customers, our shop now supports payments through PayPal. You can use this feature from this day.

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.

E-commerce starter site		Desk. Sign in to <u>CMS Site</u>	• Manager. The defa	ault account is adr	and the other diversion of the other diversio	-	My account My price:	wishlist \$172.50
Search	Home N	lews Products	How to buy	Company	Silverlight		Global Administrator	Sign out
Products	Step 1 of 6 -	Add some products to	o the shopping ca	ırt				
 Cameras Cell phones MP3 Players Notebooks PDAs PCs 	Shopping	Ç →	2 -	₽	÷		+	
							Currency: U.S.	. Dollar 💌
Poll	Remove	Product name		Units	Unit price	Тах	Subtota	
How did you find this site?		Creative ZEN		1	150.00		22.50	<i>P</i> 172.50
C Referred by a friend				If you have a	coupon code, please	e enter it h	iere:	
Print advertising Link from another web site Search engine Vote	Empt	y					Total shipp Total price	-
Quick links	Continue	shopping						Check out
» <u>Company</u> » <u>News</u> » <u>Home</u>								
			🔆 Ken	tico				

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

Kentico CMS Desk Content My de	esk Tools Administration	Switch to Site Manager Site	E-commerce site VSer: Global Administrator v5.0.3688	Sign out
		P		
lew Delete 🖨 Move 🕹 Down		Search		
Content management	View mode	Other		
E-commerce site	Page Design Form Properties		✓ Display web	part content
News	Sign in to C	MS Desk. Sign in to <u>CMS Site Manager</u> . The	default account is administrator with blank password.	-
Products			Shopping cart My account My wis	hlist
How to buy	E-commerce	ctronics for you	Total price: \$12	72.50
	starter site		~ ~ ~	
. Special pages	-		· · · · ·	
	Search Home	News Products How to bu	y Company Silverlight Global Administrator	
Print Search				Sign out
Unsubscribe	Products	pages/Shopping Cart - page template: I	Ecommerce - Shopping cart	
Wishlist	» Cameras			4
Order Completed	Cell phones MP3 Players	pingCal e products to the shoppin	ng cart	
Temporary Payment Page	» Notebooks			
🛛 🕲 Files	» PCs	Part properties Webpage Dialog		
	Web part p	properties (Shopping cart)	3	Documentat
	Poll General Layout			
	How did you find this : Default	Default		
	Referred by a friend Visibility			
	Print advertising General Registration form	Web part control ID:	ShoppingCart	
	C Link from another web	Web part title:	•	
	O Search engine HTML Envelope			
	Vote	Disable view state:	•	
	Time zones	Disable macros:		
	Quick links			
	QUICK IINKS			
	» How to buy	Vicibility		
	» How to buy » <u>Company</u> » <u>News</u>	Visibility		
	» How to buy » Company	Visibility Visible:	• 🛛	
	» How to buy » <u>Company</u> » <u>News</u>		 ✓ 	
	» How to buy » <u>Company</u> » <u>News</u>	Visible:	•	
	» How to buy » <u>Company</u> » <u>News</u>	Visible:	•	ear

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	ndicates 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.

84

Notify administrator about	Enter administrator's e-mail address if you want to send registration
new registrations to e-	notification message.
mail address	

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:

	ontent My desk Tools Administratio	Switch to Site Manager Site: E-commerce site 💌 User: Global Administrator V5	i.0.3688 Sign out
W Delete Move Content manageme	Ŷ Up Down Down Colt Preview	Live site List Search	0
E-commerce site	Page Design Fo	m Master page Properties	isplay web part content 🕜
	▼ / - page template: Ec	mmerce master page	· ·
)- i News - Products	▼ zoneTopinfo		
How to buy	🔻 statichtml 🎡	Sign in to CMS Desk. Sign in to CMS Site Manager. The default account is administrator with blank password.	
Company	▼ zoneTop	▼ zoneTopShoppingcart	
📲 Silverlight 崎 Special pages	🔻 Topimage 🎯	T Phone is a Code Provider	My wishlist
i 🏐 Files			and the second se
CMS Desk - W	eb Part properties Webpage Dialog	Total price:	\$172.50
鷸 Web par	t properties (Shopping cart pr	view)	
General Lay	out		-
Default	Default	× zoneTo	
Visibility	Delaut		tButton 🎡 Sign out
General	Web part control ID:	ShoppingCartPreview	tUser 🎡
HTML Envelope		E	4
XALA	Web part title:		
Time zones	Disable view state:	• •	
Partial caching	Disable macros:	• •	I
	Visibility		
	Visible:	• 2	
	Hide on subpages:	• •	
	Show for document types:	> Select Clear	
	Display to roles:	Add roles Clear	
	· ·	-	
Refresh cont		OK Cancel Apply	
http://localhost/N		parts/WebPartP 💁 Local intranet Protected Mode: Off	
	» <u>News</u>		

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.

86

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, four products are displayed at the most.

For instance, if a customer has bought product A together with products B and C, some other customer who is viewing the details of product A is being displayed also with products B and C. This is because products B and C were purchased together with product A by the first customer.

E-commerce starter site	Electronics for you	and the second second	cart My account My wishlist our shopping cart is empty
Search	Home News Products How	/ to buy Company Silverlight	Global Administrator Sign out
Products	Products / Cell phones / Samsung SGH	l i620	Similar products
» Cameras Cell phones MP3 Players Molecols Notebooks PDAs PCs Poll How did you find this site? Referred by a friend Print advertising Link from another web site Search engine Vote	• Samsung SGH i620	Vidth: 94.9 Height 59.3 Vidth: 128 Display type: TF 65M colors Display type: TF 65M colors Display resolution: 202 Bluetooth: yes EDGE: yes HSCSD: no 3G: yes Wi-Fi: no Java: yes Built-in camera: yes Built-in zemera: yes	Nikon D40 \$490.00 230 \$159.00 230 \$159.00 \$200
Quick links	Without tax: \$650.00		Nikon Coolpix S51 \$1950.00
 How to buy Company News Home 	Samsung SGH i620 - Color Red (+ \$0.00)	×	Latest news RSS
	Total price (v	vithout tax): \$650.00	2/13/2008

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

87

*	Kentico CMS Desk	ntent My desk Tools Administra	tion	Switch to Site Manager	Site: E-commerce site 💌 User:	Global Admini	istrator v5.0.3688 Sign out
New	Delete Move Content management	1 Up Down	Live site List Sear	ch			0
🖃 🛞 E	E-commerce site	Page Design	Form Product Properties				🗹 Display web part content 🛛 🕜
÷	Home CMS Desk - Web Pa	art properties Webpage Dialog			×	ng cart My	account My wishlist
ė.	📕 ൽ Web part pr	operties (Similar products b	y sale)		Documentation	Your shop	oping cart is empty
G	General Layout						
	Default Visibility	Default					
	Content filter	Web part control ID:	CustomersAlsoBuy		=		Global Administrator Sign out
	Transformations	Web part title:	•				
	System settings No data behavior						zoneRight BestSellingProducts
	HTML Envelope	Disable view state:				<u> </u>	▼ SimilarProducts 🍪
e	Time zones	Disable macros:					Similar products
0	Partial caching					Print	\$1950.00
 E		Visibility					Nikon D40 \$490.00
		Visible:	•		*		
÷.4	3	Hide on subpages:					Olympus Stylus FE- 230 \$159.00
		Show for document types:	•	Select	Clear		Pentax K10D \$804.00
		Display to roles:	•	Add roles	Clear		000000
		Display to roles.	·	Additoles	Cicai		CustomersAlsoBuy
		(m)			•		Customers also buy
	Refresh content			ОК	Cancel Apply		STED STORE
	http://localhost/Manua	als/CMSModules/PortalEngine/UI/Webp	arts/WebPartProperties.aspx?al Our price: \$		e Off	J	Nikon Coolpix S51
		» <u>Home</u>	Without tax: \$				\$1950.00
			Samsung S	GH i620 - Color			▼ LatesNews 🎯
			Red (+ \$0.		•		Latest news
				Total price (with	nout tax): \$650.00		2/13/2008

Content filter main properties

Path	Path of the documents to be displayed.
Document types	Types of documents that should be displayed, separated with a 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:

Delete Move	Down Edit Prev	view Live site List	Search Other		
E-commerce site	Page Design				Display web part conter
Home			o <u>CMS Desk</u> . Sign in to <u>CMS Site Manager</u> . The	default account is administrator with blank pas	sword.
News Products				Shopping c	art My account My wishlist
📄 📄 Cameras	F	El	ectronics for you	You	Ir shopping cart is empty
CMS Desk - Web Pa	rt properties Webpage Dialog				2
art pro 💏 Web part pro	operties (Top N products b	y sales)		Documentation	a i a a a a a a a a a a a a a a a a a a
General Layout					
Default	Default				Global Administrator Sign out
Visibility					
Content filter Transformations	Web part control ID:	 BestSellingProduct 	S	E	✓ zoneRight ✓ BestSellingProducts
System settings	Web part title:	•			Best selling products
No data behavior] Only in s	tock Creative ZEN
HTML Envelope	Disable view state:			Filter	\$150.00
XALA	Disable macros:				Samsung SGH i620
Time zones Partial caching					\$650.00
	Visibility				Nikon Coolpix S51 \$1950.00
	Visible:	• 🔽		100	\$1950.00
	visible.			our	
	Hide on subpages:	•		- addr	SimilarProducts
	Show for document types:	CMS.Menultem	Select Cle	ar	Canon PowerShot
	Show for document types.	CWO.Menatem		aurator	A720 IS \$195.00
	Display to roles:	•	Add roles Cle	ar Add to	cart Nikon Coolpix S51
					\$1950.00
	0			- Book Air	Nikon D40 \$490.00
Refresh content				Cancel Apply	\$490.00
http://localhost/Manua	ls/CMSModules/PortalEngine/UI/Web	oarts/WebPartProperties.aspx?a	al 🗣 Local intranet Protected Mode: Off	-41	Olympus Stylus FE-
					2 <u>30</u> \$159.00

Content filter main properties

Path	Path of the documents to be displayed.
Document types	Types of documents that should be displayed, separated with a 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



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:

	sk Tools Administration				
📄 🙀 🗊 Copy 👕 Up			0		
ew Delete 🖻 Move 🛛 🌷 Down	Edit Preview Live		Search		
Content management	View mode	•	Other		
E-commerce site	Page Design Form	Properties			Display web part content
		Sign in to <u>C</u>	MS Desk. Sign in to CMS Site Manager. Th	e default account is administrator with blank passwo	rd.
Products				Shopping cart	My account My wishlist
How to buy	E-commer	Elec	tronics for you	Your s	hopping cart is empty
)] Company] Silverlight	starter s	LE			
Special pages	starter s	sice		0	
My Account		-	***		~ ~
Logon page		Search Home	News Products How to b	buy Company Silverlight	Global Administrator Sign out
Print Search					
Unsubscribe	Products		pages/Wishlist - page template: Econ	nmerce - Wishlist	
Wishlist	» Cameras	▼ zoneL			
	» Cell phones	WISHIST	IST		
Temporary Payment Page	 » MP3 Players » Notebooks 				
🖓 Files	» PDAs	CMS Desk - Web Pa	art properties Webpage Dialog	*	×
	» PCs		11 15 5		
		🧆 10/ala mantum	emention (Minhlint)		D
		춣 Web part pr	operties (Wishlist)		Documentation
	Poll	General Layout	operties (Wishlist)		Documentation
					Documentation
	Poll	General Layout	operties (Wishlist) Default		Documentation
	Poll How did you find this	General Layout Default		▶ Wishlist	Documentation
	Poll How did you find this	General Layout Default Visibility Transformations HTML Envelope	Default Web part control ID:		
	Poll How did you find this Referred by a friend Print advertising	General Layout Default Visibility Transformations HTML Envelope AJAX	Default	Wishlist	Documentation
	Poll How did you find this Refered by a friend Print advertising Link from another w Search engine	General Layout Default Visibility Transformations HTML Envelope AJAX Time zones	Default Web part control ID: Web part title:	•	Documentation
	Poll How did you find this Referred by a friend Print advertising Link from another w	General Layout Default Visibility Transformations HTML Envelope AJAX	Default Web part control ID:		Documentation
	Poll How did you find this Refered by a friend Print advertising Link from another w Search engine Vote	General Layout Default Visibility Transformations HTML Envelope AJAX Time zones	Default Web part control ID: Web part title:	•	Documentation
	Poll How did you find this Refered by a friend Print advertising Link from another w Search engine Vote Quick links	General Layout Default Visibility Transformations HTML Envelope AJAX Time zones	Default Web part control ID: Web part title: Disable view state:	•	Documentation
	Poll How did you find this Refered by a friend Print advertising Link from another w Search engine Voto Quick links » How to buy Scompany	General Layout Default Visibility Transformations HTML Envelope AJAX Time zones	Default Web part control ID: Web part title: Disable view state: Disable macros:	•	Documentation
	Poll How did you find thi Refered by a triend Print advertising Link from another w Search engine Vote Quick links » How to buy	General Layout Default Visibility Transformations HTML Envelope AJAX Time zones	Default Web part control ID: Web part title: Disable view state:	 	Documentation
	Poll How did you find thi Print advertising Link from another w Search engine Vote Quick links » How to buy » News	General Layout Default Visibility Transformations HTML Envelope AJAX Time zones	Default Web part control ID: Web part title: Disable view state: Disable macros:	•	Documentation
	Poll How did you find thi Print advertising Link from another w Search engine Vote Quick links » How to buy » News	General Layout Default Visibility Transformations HTML Envelope AJAX Time zones	Default Web part control ID: Web part title: Disable view state: Disable macros: Visibility Visible:	 . .<	
	Poll How did you find thi Print advertising Link from another w Search engine Vote Quick links » How to buy » News	General Layout Default Visibility Transformations HTML Envelope AJAX Time zones	Default Web part control ID: Web part title: Disable view state: Disable macros: Visibility	 	Documentation
	Poll How did you find thi Print advertising Link from another w Search engine Vote Quick links » How to buy » News	General Layout Default Visibility Transformations HTML Envelope AJAX Time zones	Default Web part control ID: Web part title: Disable view state: Disable macros: Visibility Visible:	 . .<	Documentation

Main properties

Transformation nameTransformation 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 website, each time in different sizes, it is sufficient to upload it just once. KenticoCMS is able to resize it for you. Please consider that the size of a picture can only be 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 website.

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

CMS Desk Content My desk	sk Tools Administration		
Copy TUp W Delete Move Down Content management	Edit Preview Live site List	Search other	
E-commerce site	Page Design Form Properties		
 News Products How to buy Company Silveright Special pages Files Kentico logo Header logo Header background Homepage banner Map Default product image 	General URLs URLs URLs Save Menu Workflow Versions Categories Created docs United docs Created by: Cre	Inherit Inherit	2

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 Properties
🔚 Save 👿	Spell check
EmployeelD: Employee name:	1 David Simons
Employee photo:	Vpload: Browse
Publish from:	Now
Publish to:	Now

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

<pre><%#GetImage(Eval("EmployeePhoto"))</pre>)	%>
--	---	----

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 <u>Sitemanager settings</u> for more details) in the given size.



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



Storing images

For the best performance while loading images, please ensure images are enabled to be stored in the file system. For more details, please refer to the <u>Storing images</u> chapter.

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 website are stored in **<web project** folder>/CMSFiles.

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

- Attachments (they are always assigned to the specific website) 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:

96



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 and Height values

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 feature matrix at Kentico website (<u>http://kentico.com/cms-asp-net-features/Feature-Matrix.aspx</u>).



5.4.2 BizForms

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>.

Kentico CMS Desk Content	gn out
Content Con	gn out ?

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.

Kentico CMS Desk	Content	My desk	Tools	Administration	Switch to Site Manager	Site: E-commerce site 💌	User: Global Administrator v5.0.3688	Sign out
My desk		My bl						
Recent docume	ments	Comments	Blogs					
Waiting for my	approval y me	Blog:	3					(
My recycle bin My documents								
My profile		Actions	Name My Blog	1				
🗟 My messages				·				
📲 My friends								
	Ľ							

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>.

Kentico CMS Desk Content	My desk	Tools Administration						
ols Abuse report	Nevent							
BizForms	Actions	Event	Date -		Capacity	Attendees	Open from	Open t
😼 Booking system	Q	December conference	12/21/2009 9:00:00 AM		10	0		
Content staging	à	November conference	11/1/2009 1:00:00 PM		100	0		
Custom tables E-commerce	à	October conference	10/15/2009 4:00:00 PM		30	0		
File import	Q	September conference	9/27/2009 9:00:00 AM		20	0		
🚨 Forums 🍇 Groups		Example conference	5/7/2009 2:22:09 PM		10	0		
e Polls ■ Reporting ∰ 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.

Kentico CMS Desk Content	Switch to Site Manager Site: Corporate Site 🗨 User: Global Administrator V5.0.3688 Sign out	
 Tools Abuse report 	Content staging	-
BizForms	Al tasks Documents Data Objects Servers	_
Ilogs	All tasks	0
Custom tables	Server: (all)	-
📲 File import Sorums	There are no tasks to process within current location.	
🍇 Groups 🦏 Media libraries 🙆 Message boards		
Newsletters Polls		
Reporting		
Ĺ		

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

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.

🔊 Select web part Webpage Dialog		×
🛷 Select web part		
 Select web part Select web parts All web parts All web parts All web parts All web parts BizForms BizForms Booking system Community Community services Content rating Content rating Content rating Costom tables Data sources E-commerce E-commerce E-commerce Google services Listings and viewers Media Media library Message board Messaging Navigation News Silverlight Silverlight Tagging & categories Text Wedss Widgets 	Web part name: Event calendar	Search
	11	OK Cancel
http://localhost/Manuals/CMSModules/PortalEng	jine/UI/Webparts/WebPartSelector.aspx	👊 Local intranet Protected Mode: Off

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.



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 website at CMSDesk -> Tools -> Forums -> <edit forum group>.

	tent	My desk	Tools	Administration	Switch to Site Manager	Site: E-	commerce site	User:	JIODAI AG	ministrator v5.0.3688	Sign out
Cont			,	up properties							
Abuse report		·									
BizForms		-orum grou	<u>ips</u> • Ad	dHoc forum group							
Booking system		Forums	General	View							
Content staging		Add foru	m								
E-commerce											
File import		Actions		Forum name		Status	Moderated	Threads	Posts	Last post	Last post l
Borums Groups		N 🗶	1 🌷	Acer Aspire 3105WLMi		Open	No	0	0		
ng Groups Media libraries		1 🗶 🖉	1 🎍	Configurable PC		Open	No	0	0		
Message boards		1 🗶 🖉	14	Canon Digital Rebel XTi		Open	No	2	5	3/5/2008 7:15:51 PM	Jane
🗐 Newsletters		1 🗙	14	HP iPAQ hx2795 Pocket PC		Open	No	1	2	3/5/2008 7:32:30 PM	administrate
🥏 Polls 🐚 Reporting		2 🗙	14	Creative Zen Stone		Open	No	1	2	3/5/2008 7:30:01 PM	administrate
al Keporting		/ ×	14	Nikon D40		Open	No	1	2	3/5/2008 7:06:03 PM	administrate
		/ X	14	Nokia 6300		Open	No	1	2	3/5/2008 7:27:13 PM	administrate
	•	/ ×	14	iRiver T60		Open	No	1	3	3/5/2008 6:48:45 PM	Alex
	4	1	14	Motorola V3 Razr		Open	No	1	2	3/5/2008 7:24:47 PM	administrate
			14	Tiger Extreme PC		Open	No	1	4	3/5/2008 6:57:59 PM	administrate
			14	iPod Nano		Open	No	1	3	3/5/2008 7:18:43 PM	Mike
		/ ×		Asus A639		Open	No	1	2	3/5/2008 7:20:49 PM	administrate
		~ ••									

After choosing a forum group, you can Edit (\swarrow), Delete (\bigotimes), Move up (Υ) and Move down (\clubsuit) individual forums.

Kentico CMS Desk							Switch to Site Manager	Site: E-commerce site 💌	User: Global Administrator	v5.0.3688	Sign out
CMS Desk	Content	My desk	Tools	Administration							-
⊡ Tools 		-		up properties							0
BizForms		Forum gro	ups 🕨 Ad	Hoc forum group							
📕 Blogs		Forums	General	View							
Content staging		Forums +	Configura	able PC							0
Custom tables		Posts	General	Subscriptions	Moderat	ors Security Vi	iew				
🕞 File import		Config	urable P	с. Г		New thread	d				
Se Forums				-	_	S New unear	u				
🍓 Groups 🖏 Media libraries						User name:	Admin				
📋 Message boards						E-mail:	administrator@localhos	t local			
la Newsletters						Subject:	My new thread.	t.iocai			
🥏 Polls 📓 Reporting						Subject.	Ø∎∎⊋ b7u⇔∎	7			
Web analytics							This is my new thread.	-		*	
	•										
						Post:					
					•						
										-	
						<u>.</u>				*	
						Signature:				-	
						Subscribe to post	:				
							OK Car	ncel Preview			

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 Geo mapping

The Geo mapping 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 Geo mapping module implementation, use the **Maps -> Google Maps** web part.

Recently used web parts	<u>^</u>	Web part name:			Search
All web parts All web parts All web parts Attachments Attachments Starburgs Blogs Starburgs Starburgs Starburgs Starburgs Starburgs Attachments Starburg		bing Bing maps	Google maps	Yahoo maps	Jeach
Community Content rating Content ra	E.				
- 🗐 Microsoft SharePoint - 🏐 Navigation - 🏐 News - 🗐 Notifications - 🏐 Polls					
- 🔄 Navigation - 🚭 News - 🚭 Newsletters - 🚭 Notifications - 🚭 Polls - 🚭 Reporting		Google maps			
- 🔄 Navigation - 🔄 News - 🔄 Newsletters - 🔄 Notifications - 🚭 Polls - 😋 Reporting - 😋 Silverlight			from Google maps servic	е.	
- 🔄 Navigation - 🚭 News - 🚭 Newsletters - 🚭 Notifications - 🚭 Polls - 🚭 Reporting			from Google maps servic	e,	

For more details and information about the Geo mapping module, please refer to the Geo mapping chapter in Kentico CMS Developer's Guide.

5.4.10 Image Gallery

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.
Select web part Webpage Dialog					
Select web part					
🍓 Recently used web parts 🕥 All web parts	Web part name:			Search	
Abuse report Articles Articles Articles BizForms Blogs Booking system Community Community	Attachments	Basic datalist	Basic repeater	Calendar	Content slider
			123		
- 쉨 Full-text search - 쉨 General - 쉨 Google services - 쉨 Listings and viewers - 쉨 Media - 쉨 Media	Datalist	Datalist with custom query	Document pager	Grid	Grid with custom query
Image: Second	Image gallery	Lightbox	Page views	Random document	Related documents
ିଂକ୍ରୀ Reporting ିକ୍ତୀ Silverlight ିକ୍ତୀ Tagging & categories ିକ୍ତି Text ିକ୍ତି User contributions	1 2 Listings and view	are			
//localhost/Manuals/CMSModules/PortalEng				cal intranet Protected Mode: C	OK Cance

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.



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

5.4.12 Newsletters

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.

Kentico CMS Desk Conte	Switch to Site Manager Site: E-commerce site User: Global Administrator v5.0.3688 ent My desk Tools Administration	Sign out
ools ···································	Newsletters	
🗐 Blogs 🙀 Booking system 馣 Content staging	Newsletters Subscribers Templates Newsletter queue Import subscribers Export subscribers Image: New newsletter Image: New n	
Custom tables E-commerce File import	Actions Newsletter - Subscribers Last issue X	
월 Forums 🌆 Groups 👼 Media libraries		
Message boards Newsletters Polls		
Reporting Web analytics		

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.

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

Kentico CMS Desk	Content	My desk	Tools	Administration		Switch to Site Manager	User: Global Administrator v5.0.3688	Sign out
ols		Poll						- (
🧃 Abuse report								
BizForms Blogs		Polls + H	ow did yo	u find this site?				
Booking system		General	Answer	s Security Sites View				
Content staging		🎭 <u>New an</u>	swer @	Reset answers				
Custom tables								
🔚 File import		Actions	;	Text	Count	Enabled		
- 🎎 Forums - 🏭 Groups		1	1 🗸	Referred by a friend	13	Yes		
📲 Media libraries		 K 		Print advertising	4	Yes		
📲 Message boards		1		Link from another web site	9	Yes		
Newsletters		/ 🖉 🗱	1 🌷	Search engine	5	Yes		

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

The Reporting module enables you to create internal reports to watch activity in the Kentico CMS system and on the website. 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>.

Kentico CMS Desk Cor	ntent My desk To	ools Administration	Switch to Site Manager	Site: E-commerce site 💌	User: Global Administrator v5.0.3688	Sign out
ols		category properties				
Abuse report BizForms		ies + E-commerce				
Blogs		eneral				
National System National System National Systems National Systems Content Staging National Systems Statems Sta	New report	chine her				c
E-commerce	Actions	Display name 🔺				
🚨 Forums & Groups	N 🗶 📄	Inventory				
👧 Groups Media libraries	N 🗱 📄	Number of orders per day				
📋 Message boards	N 💥 의	Number of orders per month				
🗐 Newsletters 🥌 Polls	/ 🗶 📦	Number of orders per year				
Polis Reporting	1					
Web analytics	2 🗙 🗊					
	🧷 🗶 🎑					
	• 🥒 💥 🗊	Top 100 customers by volume of sa	lles			

After choosing a report category, you can **Edit** (\mathscr{N}) or **Delete** (\mathbf{X}) 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 RSS, Atom or XML feeds. This functionality is provided by a set of web parts belonging to the **Syndication** module.

For more details and information about feeds and how to create them for a different types of documents and objects, please refer to the <u>Modules</u> -> <u>Syndication (RSS, Atom, XML)</u> chapter of **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 website 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.

Select web part Webpage Dialog		×
🛷 Select web part		
 Recently used web parts All web parts All web parts All ves report Articles Artachments BizForms Blogs Booking system Community Community services Content rating Custom tables Data sources Forums Forums Foll-text search General Google services Listings and viewers Media Media library Message board Messaging Navigation News Silverlight Silverlight Silverlight Tagging & categories Widgets 	Web part name: Contribution list Edit contribution	Search
		OK Cancel
http://localhost/Manuals/CMSModules/PortalEngine/	/UI/Webparts/WebPartSelector.aspx	📢 Local intranet Protected Mode: Off

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

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

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

Kentico CMS Desk Content	t My desk Tools Administration					<u>Switc</u>	h to Site	Manage	<u>r</u> s	ite: E-c	omme	rce site	•	User:	Glot	bal Ad	minis	strato	r v5.	.0.368	38	S	ign ou	it
- Tools	- Reports	5	Brows	er typ	es										Year	201	0				•	Sho	w	
CMS Desk Content	Reports Browser types Campaigns Conversions Countries File downloads File downloads - multilin Invalid pages Page views Page views Page views Visits	Jan 5 1 Brov	Feb analyt Fet 2 3 Save vser ty	ary 20 4 5	Mar 10	6 5 7	ed. To en Apr 8 9 Hanage d: 111 12:00:	May 10	/	go to Si Jun 12 13	7	Jul		Aug	Web /	Sep	ics an 8 21	0ct		ne box	("Ena	able w		
	۲ <u>۱۱۱</u> ۲									-														

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.

Kentico CMS Site Manager	Sites	dministration	Settings	Development	Licenses	Support		Switch to CMS Desk	User: Global Administrator v5.0.3688	Sign out
ministration Avatars	Web									
Bad words Badges Banned IPs E-mail queue	Servers	Tasks ver								
Permissions	Web farm	is disabled on o	current serve	r. See Kentic o	CMS Develo	pers Guide -> M	lodule Web Far	m Synchronization to	enable the web farm.	
🗑 Recycle bin 魁 Roles	Actions									
Scheduled tasks Smart search		My Server	Yes							
System										
🔜 UI personalization 🌡 Users										
👣 Web farm										
	Ŀ									

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:



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 website. Please note that **AddToWishlistImageButton** properties is set as well. Thus, the **Add to wishlist** button is displayed as well.

<u>Please note</u>: the <%@ Register ...> part needs to be placed at the beginning of the whole transformation code; otherwise, the transformation will not be functional

Products	Products / Notebooks / 15" / Acer	configurator		Latest news
 Cameras Cell phones MP3 Players Notebooks 13" 14" 15" 17" PDAs PCs 	Configure your notebook	Parameters: Processor type: Display type: 15. Resolution: 128 Graphics card: ATI Memory type: Memory size:	4 WXGA 80 × 800 I with shared memory D-RW DL	2/13/2008 Dear customers, our company has become Apple partner so you can buy Apple's great products at our shop. 2/13/2008 Dear customers, our shop now supports payments through PayPal, You can use this feature from this day.
Poll How did you find this site? Referred by a friend Print advertising Link from another web site Search engine	Our price: \$899.00 Without tax: \$899.00	Wireless LAN: yes Bluetooth: yes Infraport: no Battery type: Li-I Weight(g): Operating system:Wir Accessories:	s Ion	Newsletter subscription E-mail: OK
Vote Quick links » How to buy	Notebooks - Intel CPU Intel Core 1600Mhz (+ \$200.00 Notebooks - HDD)	Pruduct options	
» <u>How to buy</u> » <u>Company</u> » <u>News</u> » <u>Home</u>	Samsung 160GB SATA (+ \$99 Notebooks - DDR2 modules	1.00)	×	

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 website.



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.

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	If ShowProductOption is set to false and a customer clicks Add to shopping cart for a products with specified product options, they are redirected to product detail where they are 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.

)ur price: /ithout tax:	
Notebook	ss - AMD CPU
AMD X2	1800 Mhz (+ \$150.00)
Notebook	ss - HDD
Samsun	g 80GB SATA (+ \$80.00)
Notebook	ss - DDR2 modules
512MB [DDR2 (+ \$35.00)
accelerati	I model was built specifically to investigate five major trends of global concern – ing industrialization, rapid population growth, widespread malnutrition, of nonrenewable resources, and a deteriorating environment.
	Total price (without tax): \$1164.00

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:

Add to wish list

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.

AddToWishlistImageButto n	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

Displaying product price on the website

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 -> website -> Cache content (minutes).

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



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

Kentico CMS comes with the built-in **Smart search** module that enables you to search for the given expression in the content of your website.

The search functionality is ensured by the **Special pages -> Search** page, where the **Smart search dialog with results** web part (1. in the screenshot) is placed. This web part allows searching and displays the search results.

The Smart search box web part (2. in the screenshot) on the master page is connected to the Smart search dialog with results web part by means of the Search results page URL property. When a user searches using the Smart search box, they are redirected to the Special pages -> Search page where the Smart search dialog with results web part displays the results.



The Smart search module provides index-based search. You need to specify which index should be searched using the Indexes property of the **Smart search dialog with results** web part.

Indexes can be created and managed in **Site Manager -> Administration -> Smart search**. For detailed information about Kentico CMS Smart search module, please refer to <u>Kentico CMS Developer's</u> <u>Guide -> Modules -> Smart search</u>.

Kentico CMS Site Manager	Sites Adminis	tration Settings Devel	opment Licenses	Support	Switch to CMS Desk				
Administration Avatars G Bad words Badaes	Smart search indexes								
→ Badges → Banned IPs → E-mail queue → E-mail queue → Permissions → Recycle bin → Sa Roles	Actions	Display name 🔺 Community site - default	Last rebuild time 2/19/2010 3:54:49 PM	Index type Documents	Index status Ready				
	/ X 8 / X 8	Community site - Forums Ecommerce site - default	2/19/2010 3:54:51 PM	Forums Documents	Ready				
Scheduled tasks									

🔏 Users



Configuration settings

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: <u>Enabling the e-commerce module</u>
- 2. Configure **access rights** to the **E-commerce module** interface. More details: <u>Security configuration</u>
- 3. Set up **countries and states**. More details: <u>Countries and states</u>
- 4. Configure **store settings**. More details: <u>Store settings</u>
- 5. Set up **departments** and assign **store administrators** to their **departments**. More details: <u>Departments</u>
- Configure currencies. If you plan to use multiple currencies, specify the exchange rates. More details: <u>Currencies</u>, <u>Exchange rates</u>
- 7. Set up **shipping options**. More details: <u>Shipping options</u>
- 8. Set up **payment methods**. More details: <u>Payment methods</u>
- 9. Configure **tax classes**. More details: <u>Tax classes</u>
- 10.Set up order processing **workflow**. More details: <u>Order status</u>
- 11.Configure **public and internal product status**. More details: <u>Public status</u>, <u>Internal status</u>
- 12.Modify the **invoice/receipt** design. More details: <u>Invoice</u>
- 13.Create documents with product details at CMS Desk -> Content and mark the documents as products. Enter the product details. More details: <u>Products</u>

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 website. You can learn more on custom providers in chapter <u>Developing custom</u> 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

ltems

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 <u>Web.config settings</u> 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 them with **User name** and **Password** straight away and create the user account for them.

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 their last purchase)

- **Preferred shipping option** - customer's preferred shipping option (automatically set based on their 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 their 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 <u>Customer credit</u> 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 accounts that users use to sign in to your e-commerce site (if they are registered users, not only anonymous site visitors)

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 website 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 <u>Discounts</u> <u>overview</u> 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. Customers are asked to choose their 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

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want to display a product on your website, 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 document structure of a specific website. This allows you to use the same product on multiple sites.



6.5 **Product options**

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

Here you can either create a new option category by clicking the \Box New category link or Edit (\checkmark) and Delete (\updownarrow) 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 their 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 to the current option category by clicking the **New product option** link or you can **Edit** (\checkmark) or **Delete** (**X**) existing options or change their succession (**1**), (**4**) 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 website (e.g. you can display a link to the manufacturer's website 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 website.

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 website in one year
- Numbers of orders per month number of orders made on the website in one month
- Number of orders per day number of orders made on the website 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

134

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 register 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		×
🍓 Change main cur	rency		
(Select new main currency)			
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Round to:	2	0	
Recalculate exchange ra			
Recalculate product pric	es		
Recalculate flat taxes			
Recalculate flat discoun	t coupons		
Recalculate flat volume	discounts		
Recalculate customers'	credits		
Recalculate shipping op	tions		
Recalculate values of the	e document types' fields that	t are used as a source for the product price	(
Recalculate minimal am	ount for free shipping		
		OK Cano	cel
http://localhost/Manuals/CMS	Modu 👊 Local intranet Pro	otected Mode: Off	H

Emails tab

• Send e-commerce e-mails from - an e-mail address the e-commerce notification e-mails are sent

from

- Send e-commerce e-mails to an e-mail address (e.g. merchant's e-mail address) the ecommerce notification e-mails are sent to
- Send order notification indicates if e-mail 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 e-mail notifications are sent after payment is completed. The e-mail 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 in the checkout process by clicking the **# New step** link or you can **Edit** (\mathscr{N}) or **Delete** (**X**) existing steps or change their succession (Υ), (\clubsuit).

For more information about purchase process please refer to the <u>Customizing the purchase process</u> chapter.

6.11.2 Departments

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. CountryID%}	Displays the value of specified company address country data column (CMS_Country)
{%CompanyAddress.State.	Displays the value of specified company address state data column (

136

StateID%}	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 website 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 website 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.

Invoice	Compan	ny logo		
invoice number: 2	Order date:			46.2008
Supplier	Customer			
Company address	Development Soft 1020 Blueberry Ln. Tucson 85754 USA, Arizona			
Payment option Cash	on delivery			
Product name	Units	Price/unit	Tax	Subtotal
Configurable PC	1	0.00	0.00	0.00
- Windows Vista Home Premium	1	218.00	0.00	218.00
- CD RW Samaing Black SATA	1	42.00	0.00	42.00
- INTEL Core 2 Qued Q6600 2,40GHz	1	220.00	0.00	220.00
 rVIDIA GEFORCE 8800GTS 512MB 	1	440.00	0.00	440.00
- SAMBUNG SOOGB SATA	· · · ·	139.00	0.00	139.00
- DOR2 1024MB 657MHZ		30.00	0.00	30.00
- ACER 22"		480.00	0.00	480.00
- AUDICY SE belt		30.00	0.00	30.00
- Repro 5.1		80.00	0.00	30.00
- Popro 5.1				90.00
	1	90.00	0.00	
- Scener	1	69.00	0.00	69.00
Configurable PC	1	0.00	0.00	0.00
- Windows XP Home	1	191.00	0.00	191.00
- CD RW Samaing Black SATA	1	42.00	0.00	42.00
 INTEL Core 2 Quad Q8600 2,40GHz 	1	220.00	0.00	220.00
- nVIDIA GEFORCE 8800GTS 512MB	1	440.00	0.00	440.00
- SAMSUNG 500GB SATA	1	139.00	0.00	139.00
- DDR2 1024MB 057MHZ	1	30.00	0.00	30.00
- ACER 22"	1	480.00	0.00	480.00
- AUDIGY SE belk	1	30.00	0.00	30.00
- Repro 5.1	1	80.00	0.00	80.00
- Printer	1	90.00	0.00	90.00
- Scenner	1	69.00	0.00	69.00
Configurable PC	2	0.00	0.00	0.00
- Windows Vista Business	2	270.00	0.00	540.00
- CD RW Semang Black SATA	2	42.00	0.00	84.00
- INTEL Core 2 Quad Q8600 2,40GHz	2	220.00	0.00	440.00
 nVIDIA GEFORCE 6600GTS 512MB 	2	440.00	0.00	880.00
- SAMSUNG 500GB SATA	2	139.00	0.00	278.00
- DDR2 1024MB 657MHZ	2	30.00	0.00	60.00
- ACER 22"	2	480.00	0.00	960.00
- AUDIGY SE bulk	2	30.00		60.00
- Repro 5.1	2	80.00	0.00	160.00
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Product name	Inde	Priceland	Tex	Syndrode 4
Product name - Pointer	Units 2	Pricelunit 90.00	Tax 0.00	Sublotal 180.00
- Printer	2	90.00	0.00	180.00
- Printer - Scanner	2 2	\$0.00 69.00	0.00	180.00
- Printer - Scienter Configurable PC	2 2 1	90.00 69.00 0.00	0.00	180.00 138.00 0.00
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- Peter - Scarner Confugurable PC - RedHat Linux - DD RW Genseng Black SATA - NTEL Cone 2 Guid G 0805 2,45G kit - NTUCH CONFUGE ENCOTE 5 10MB - SAMOUND SOCIE SATA - DDR2 1004MB COTM/C - AUGR 22 - AUGR 27 - AUGR 21 - Repo 5.1	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	\$0.00 \$0.00 \$0.00 42.00 220.00 440.00 130.00 30.00 80.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	180,00 138,00 50,00 42,00 220,00 440,00 130,00 30,00 80,00 80,00
- Pinter - Science - Configuration PC - Resting Lines - Resting Lines - NUEL Core 2 Guad Gesol 2,405kb - NUEL Core 22 - AUDIOY Core 20 - AUDIOY Core 20 - AUDIOY Core 20 - Pinter - Pinter - Pinter - Pinter - Core 2 - Pinter - Pinter - Pinter - Core 2 - Pinter - Core 2 - Pinter - Pinter - Core 2 - Pinter - Pinter - Core 2 - Pinter - Pinter - Core 2 - Pinter - Co	2 2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1	\$0.00 \$0.00 \$0.00 \$20.00 42.00 220.00 440.00 130.00 30.00 \$0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	180.00 135.00 50.00 42.00 130.00 130.00 130.00 30.00 480.00 30.00 80.00 90.00 90.00
- Pinter - Science - Configuration PC - Resting Lines - Resting Lines - NUEL Core 2 Guad Gesol 2,405kb - NUEL Core 22 - AUDIOY Core 20 - AUDIOY Core 20 - AUDIOY Core 20 - Pinter - Pinter - Pinter - Pinter - Core 2 - Pinter - Pinter - Pinter - Core 2 - Pinter - Core 2 - Pinter - Pinter - Core 2 - Pinter - Pinter - Core 2 - Pinter - Pinter - Core 2 - Pinter - Co	2 2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1	\$0.00 60.00 50.00 42.00 220.00 130.00 30.00 30.00 80.00 50.00 50.00 Total	020 020 020 020 020 020 020 020 020 020	180.00 138.00 50.00 42.00 220.00 440.00 139.00 30.00 480.00 30.00 80.00 80.00 58.00
- Pitrian - Scanner - Scanner - Scanner - Scanner - Rodie Linux - DTRV Serving Back SATA - INTEL Core 2 Gued G6000 2,40GHz - INTEL Core 2 Gued G6000 2,40GHz - INTEL Core 2 Gued G6000 2,40GHz - INTEL Core 2 - SAMBUNG SCANNE2 - AUGR 20 -	2 2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1	90.00 69.00 50.00 42.00 440.00 139.00 440.00 30.00 69.00 50.000 50.00 50.00 50.000 50.00 50.00 5	020 020 020 020 020 020 020 020 020 020	180.00 135.00 50.00 42.00 220.00 440.00 135.00 30.00 450.00 30.00 80.00 50.00 \$ 8.00 \$ 9107.00

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 website in the drop-down list and check the box "**Product**" tab enabled. Click **Save**.

140

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

💒 Kentico		Switch to Site Manager Site: E-commerce site 🚽 User: Global Administrator v5.0.3688 Si	ign out
CMS Desk Content My des	k Tools Administration		
New Delete Avore Down Content management	Edit Preview Live sit	te List Search Other	0
E-commerce site	Page Design Form P	roduct Properties	0
Home Home Mews Comparison Cell phones	Document is a product	x dasses Volume discounts Options Documents	
 MP3 Players Notebooks 	Product name:	HTC Touch P3450	
PDAs	Enabled:		
Asus A639	Product number:		
Ompany Special pages Special pages Special pages Special pages	Description:	■ I I = I = I = I I = I = I I = I =	E
	Price:	514.00	
	Department:	PDA & Pocket PC	
	Manufacturer:	(none)	
	Supplier:	(none)	
	Public status:	(none)	
	Internal status:	(none)	
	Availability (days):	0	-

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. The E-commerce module has the following permissions:

- **Modify configuration** allows members of the role to edit configuration of the E-commerce module on the Configuration tab
- **Modify data** allows members of the role to modify configuration and data on all other tabs than the Configuration tab + in the CMS Desk -> Content -> Product dialog
- **Read configuration** allows members of the role to view configuration of the E-commerce module on the Configuration tab
- **Read data** allows members of the role to read configuration and data on all other tabs than the Configuration tab + in the CMS Desk -> Content -> Product dialog

Moreover, you can assign store managers to particular <u>departments</u>, 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.

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.

Kentico CMS Site Manager							Switch to CMS Desk	User: Global Administrator	v5.0.3688	Sign out
civis site manager	Sites Ac	dministration	Settings	Development	Licenses	Support				
evelopment	Cour	ntries								2
🗐 Categories 🎱 Countries	New cour	ntry								
GCSS stylesheets	Wew cour									
Cultures	Country na									
Custom tables	Country na		• 10W							
Document types E-mail templates		31	IOW							
Sorm controls	Actions	Country	name 🔺							
📰 Inline controls	2 X	Afghanist	an							
Modules	<i>1</i> ×	Albania								
Page layouts	/ X	Algeria								
Page templates	/ X	American	Samoa							
Relationship names	/ ×	Andorra								
System tables Tag groups	/ X	Angola								
Time zones	/ X	Anguilla								
🗑 UI cultures	· /×	Antarctica								
Web part containers			nd Barbuda							
🚀 Web parts 💿 Web templates		Argentina								
Widgets		Armenia								
Workflows		Aruba								
		Aruba								
		Austria								
		Azerbaija								
		Bahamas	3							
		Bahrain								
		Banglade								
	/ ×	Barbados	3							
	2 X	Belarus								
	2 🗙	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 ecommerce settings are shared by all websites. 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 websites:

- 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.

Kentico CMS Site Manager	Switch to CMS Desk User: Global Administrator v5.0.3688 Sign of Sites Administration Settings Development Licenses Support	ut
Development Galagories Countries Gountries GSS stylesheets	Document type properties Document hypes > Product - Camera	0
 ✓ CSS stylesheets ◆ Cultures ✓ Loutomet types ← Torm controls ← Modules ✓ Notifications ← Page layouts ← Page tamplates ← Tag groups ← Time zones ← Web part containers ← Web parts ● Web templates ● Web templates ● Web parts ● Web farts ● Web parts ● Web farts <	General Felds Form Transformations Queries Child types Sites Examerals Atternative forms Search fields Documents Select document fields that will be used as a source for the specified product properties: Product mane source: Imme Imme	

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 <u>Authorize.NET configuration</u> 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:

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.		
CMSEnableOrderItemEditi ng	If set to true , it is possible to edit order item price or order item name after the order is made. Please note that you can make these change only if the CMSUseCurrentSKUData key is set to false at the same time.		
	General Shipping Billing Items Invoice History		
	Step 1 of 2 - Add some products to the properties Webpage Dialog Shopping cart		
	Empty http:// & Local intranet Protected Mode: Off Ctal price: \$1075.00 Update OK		
	It is set to false by default.		
CMSUseMetaFileForProdu ctImage	If set to true (default value), user is asked to choose a product image from the file system on their 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).		
CMSUseCustomEcommerc eProviders	For more information, please see the <u>Using custom providers</u> chapter,		
CMSShoppingCartExpirati onPeriod	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.		

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**.

[C#]

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.

Kentico CMS Site Manager	Sites	Administration	Settings	Development	Licenses	Support	Switch to CMS Desk	User: Global Administrator v5.0.3688	Sign out
CMS Site Manager CMS Site Manager Cutors C	UI cultu	I culture prop I custone for the second I custone for the second secon	Settings Derties	сго	Licenses	Support	Switch to CMS Desk	User: Global Administrator v5.0.3688	Sign out
	Custor	m string: 🗹	Ж			*			

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.



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

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

Macro	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	<pre>string GetPaymentOption(int paymentId)</pre>
##SHIPPINGOPTION##	Displays shipping option	<pre>string GetShippingOption(int shippingId)</pre>
##INVOICENUMBER##	Displays invoice number	string GetInvoiceNumber(object order)

##ORDERDATE##	Displays order date	<pre>string GetOrderDate(object order)</pre>
##ORDERNOTE##	Displays order note	<pre>string GetOrderNote(object order)</pre>
##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%}

Масто	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** for more details.

[C#]

152

```
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 =
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
                    totalCredit =
CMS.Ecommerce.CurrencyInfoProvider.RoundTo(totalCredit, currentCurrency);
                    // Return formatted value
                    result =
```

E-mail templates

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

Kentico CMS Site Manager	Switch to CMS Desk User: Global Administrator v5.0.	3688 Sign out			
evelopment	E-mail templates	6			
ategories					
Countries GSS stylesheets	Sife: (global)				
Cultures	🛞 <u>New template</u>				
Custom tables					
Document types	Template name: LIKE				
E-mail templates	Show				
Inline controls	SILW				
Modules	Actions Template name •				
Rotifications	Image: Second				
Page layouts	2 X 🐻 Blogs - Notification to blog owner				
Page templates Relationship names	Image: String of Headed and String				
Tag groups	g groups				
Time zones					
Web part containers	Economerce - Order notification to administrator				
🚀 Web parts					
Web templates	E-commerce - Order notification to customer				
Widgets	K E-commerce - Order payment notification to administrator				
Workflows	2 X 🗃 E-commerce - Order payment notification to customer				
	E-commerce - Order status notification to administrator				
	E-commerce - Order status notification to customer				
	🧪 🗱 📑 Forums - New post				
	🧪 🗱 📑 Forums - Moderator notification				
	Price Forums - subscription confirmation				
	Private Section Confirmation				
	🧪 🗱 🐻 Friends - Friend approval				
	🖉 🗱 📑 Friends - Friend rejection				
	🧷 🗱 📑 🛛 Friends - Friend request				
	2 🗙 🐻 Groups - Member accepted invitation				

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.

```
<data name="ordernotification.administratorsubject" xml:space="preserve">
<value>
Order with ID {%Order.OrderID%} - {%OrderStatus.StatusDisplayName%}
</value>
<comment>IsNotCustom</comment>
</data>
```

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 Co	ontent	My desk	Tools	Administration			Switch to Site	-indiagor Ditter	E-commerce site	- Oscil Clobal Admin	histrator v5.0.3688	Sign o
ls												
Abuse report		E-co	ommerc	e								
BizForms		Orders	Customer	s Products	Product options	Manufacture	rs Suppliers	Discount coupons	Discount levels	Reports Configuration		
Blogs Booking system		🕞 <u>New pro</u>	<u>duct</u>									(
Content staging Custom tables												
E-commerce		Product na	ame:									
File import		Product n	umber:									
Groups		Departme		all my departmen	its)		-					
Media libraries		Public sta		all)			•					
Message boards		Internal st		all)			•					
Newsletters Polls		Sites:	(a	all)			•					
Reporting				Show								
Web analytics		Actions	Prod	uct name 🔺	Produc	t number	Product price	Available items	Public status	Internal status	Enabled	
		1	Acer A	spire 3105WLM	i		490	-10			Yes	
	U	/ 💥	Acer of	configurator			899	2			Yes	
	Ľ	/ X / X		configurator configurator			899 899	2 -1			Yes Yes	
	Ľ		Acer o	-								
	Ľ	1×	Acer o Acer E	configurator			899	-1	Featured produ	ıcts	Yes	
	•	/ ¥ / ¥	Acer o Acer E Apple	configurator Extensa 7620G			899 99	-1 0	Featured produ	ıcts	Yes Yes	
		/ X / X / X	Acer o Acer E Apple	configurator Extensa 7620G iPhone MacBook Air			899 99 499	-1 0 0	Featured produ	ıcts	Yes Yes Yes	
	Ľ	/ X / X / X / X	Acer o Acer E Apple Apple Asus	configurator Extensa 7620G iPhone MacBook Air			899 99 499 2094	-1 0 0 2	Featured produ	ucts	Yes Yes Yes Yes	
	Ľ	/ X / X / X / X	Acer of Acer E Apple Apple Asus Asus	configurator Extensa 7620G iPhone MacBook Air A639	Ti		899 99 499 2094 470	-1 0 2 1	Featured produ		Yes Yes Yes Yes Yes	
		/ X / X / X / X / X	Acer of Acer E Apple Asus Asus Cano	xonfigurator Extensa 7620G iPhone MacBook Air A639 F3U AP059C			899 99 499 2094 470 999	-1 0 2 1 1			Yes Yes Yes Yes Yes Yes	
			Acer of Acer E Apple Apple Asus Canoi Canoi	Extensa 7620G IPhone MacBook Air A639 F3U AP059C n Digital Rebel X			899 99 499 2094 470 999 597	-1 0 2 1 1 0			Yes Yes Yes Yes Yes Yes Yes	
		/ X / X / X / X / X / X	Acer of Acer E Apple Asus Asus Cano Cano	infigurator Extensa 7620G iPhone MacBook Air A639 F3U AP059C n Digital Rebel X n PowerShot A72			899 99 499 2094 470 999 597 195	-1 0 2 1 1 0 95			Yes Yes Yes Yes Yes Yes Yes Yes	
		/ X / X / X / X / X / X / X / X	Acer of Acer E Apple Apple Asus Canoi Canoi Comp	configurator Extensa 7620G IPhone MacBook Air A639 F3U AP059C n Digital Rebel X n PowerShot A72 paq Presario			899 99 499 2094 470 999 597 195 659	-1 0 2 1 1 95 -1		icts	Yes Yes Yes Yes Yes Yes Yes Yes	
		/ X / X / X / X / X / X / X / X	Acer of Acer E Apple Apple Asus Cano Cano Comp Confij	iPhone iPhone MacBook Air A639 F3U AP059C n Digital Rebel X n PowerShot A72 oaq Presario gurable PC			899 99 499 2094 470 999 597 195 659 0	-1 0 2 1 0 95 -1 0	Featured produ	icts	Yes Yes Yes Yes Yes Yes Yes Yes Yes	

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.

Kentico CMS Desk Conter	t My desk Tools Adminis	Switch to Site Manager Site: E-commerce site 💌 User: Global Administrator v5.0.3688	Sign out
 Tools Abuse report 	E-commerce		
BizForms	Orders Customers Pro	ducts Product options Manufacturers Suppliers Discount coupons Discount levels Reports Configuration	
Blogs	Products + Apple MacBook	Air	0
M Content staging	General Custom fields	Tax classes Volume discounts Options Documents	
Custom tables			A
🕞 File import			
📲 Forums 🏭 Groups			
Media libraries			
Message boards			
💮 Newsletters 🥪 Polls		-	
Reporting	Price:	2094.00	
🗤 🋐 Web analytics	Department:	Hardware	
	Manufacturer:	Apple	
	Supplier:	(none)	
	Public status:	(none)	
	Internal status:	(none)	
	Availability (days):	0	
	Product image URL:	Upload: Browse	
	Package		E
	Package weight:	1.36	
	Package height:		
	Package width:		
	Package depth:		
	Inventory		
	Available items:	2	
	Sell only if items are availab		
		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.

Inventory	
Available items:	10
Sell only if items are available:	
	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 Checkout 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 - A	dd some products to the shopping	cart			
	🤹 🔹 💄 🔸	4			•
Shopping	cart				
					Currency: U.S. Dollar
Remove	Product name	Units	Unit price	Тах	Subtotal
	Asus A639 The product is currently not availab required quantity. The quantity was to maximum available quantity, wh is 1.	set 1	470.00		0.00
		If you have a c	oupon code, please	enter it here	e:
Empty					Total shipping: \$0.00 Total price: \$470.00 Update
Continue s	shopping				Check 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>.**

Kentico CMS Desk Conter	it My desk Tools Adminis	Switch to Site Manager Site: E-commerce site 💽 User: Global Administrator V5.0.3688	Sign out
- Tools	Discommerce		
BizForms	Orders Customers Pro	oducts Product options Manufacturers Suppliers Discount coupons Discount levels Reports Configuration	
📲 Blogs 🙀 Booking system	Option categories + Cell ph	iones accessories	0
- 🆓 Content staging	General Options		
Custom tables	Product options Car charge	nar	Ø
File import		-	
Se Forums	General Custom fields	Tax dasses	-
🍇 Groups 🌆 Media libraries			
📋 Message boards			
💮 Newsletters 🥟 🍘		•	
Reporting	Price:	5.00	
🔤 🗊 Web analytics	Department:	Phones	
	Manufacturer:	(none)	
	 Supplier: Public status: 	(none)	
	Internal status:	(none)	
	Availability (days):		
	Product image URL:	Upload: Browse	
	Package		
	Package weight:		
	Package height:		E
	Package width:		
	Package depth:		
	Inventory Available items:	ο	
	Sell only if items are available		
		OK	
			*

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 - /	Add some products to the shopping c	art			
	🚅 + 🌡 +	R	→	■=== 	
Shopping	cart				
				Curr	ency: U.S. Dollar 💌
Remove	Product name	Units	Unit price	Тах	Subtotal
	Motorola V3 Razr	1	130.00	0.00	<i>P</i> 130.00
	- Car charger The product is currently not availabl required quantity. The maximum available quantity is 0.	e in 1	5.00	0.00	<i>₽</i> 5.00
		If you have a c	oupon code, please	enter it here:	
Empty					Total shipping: \$0.00 Total price: \$135.00 Update
Continue	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.

Kentico CMS Desk Conter	nt My desk	Tools	Administration									
ools	🗊 E-c	ommerc	Ð									
 Abuse report BizForms 	Orders	Customers	Products	Product options	Manufacturers	Suppliers	Discount coupons	Discount levels	Reports	Configuration		
Blogs Booking system Content staging	- Report	s	f orders per		Save	Print					Q	
Custom tables			month		Available items less than: 10 Update							
🙀 Media libraries		Inventory Top 100 c		volume of sale	SKU name			Product	number	Department name	Available items	
🔲 📔 Message boards Mewsletters					1024MB DD	R2				Hardware	0	
🥏 Polls					2048MB DD	R2				Hardware	0	
Reporting					512MB DDF	R2				Hardware	-12	
Web analytics					Abit AW9D -	Intel 975X				Hardware	2	
					ACER 22"					Hardware	-1	
	Ľ				Acer Aspire	3105WLMi				Hardware	-10	
				ŀ	Acer config	urator				Hardware	-1	
					Acer config	urator				Hardware	2	
					Acer Extens	a 7620G				Hardware	0	
					ActionTech	Gladiator CK	18B blue			Hardware	4	
					AMD Semp	on 1800Mhz				Hardware	0	
					AMD X2 180	00 Mhz				Hardware	0	
					AMD X2 200	0 Mhz				Hardware	0	
					AOC 19"					Hardware	0	
					AOC 20"					Hardware	0	
					Apple iPhor	ie				Phones	0	
					Asus A639					PDA & Pocket PC	1	
					Asus F3U A	DOEDO				Hardware	1	

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 <u>Discount coupons</u> chapter.
- **Discount levels** discount that is assigned to the customer for all their purchases. For more details see the <u>Discount levels</u> 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 <u>Products</u> 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.

tep 1 of 6 - A	Add some prod	ducts to	the sho	opping	cart							
	Ş	⇒ (8	•	2	•		•		•		
Shopping	cart											
										Curre	ncy: U.S. D	ollar 💌
Remove	Product nam	ne			Unit	s	Unit pri	ice	Tax		Subtotal	
	Apple MacBo	<u>ook Air</u>			5		:	2094.00)	0.00	\mathcal{P}	10470.00
					lf you h	ave a c	oupon code	, pleas	e enter it he	ere:		
										Tota	al shipping:	\$0.00
												\$10470.00
Empty											U	pdate

Discount coupons

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

V. Kentico			Switch to	Site Manager Site	E-commerce site	User: Global Ad	ministrator v5.0.3688	Sign out
Kentico CMS Desk Content	My desk Tools	Administration						
Tools Abuse report	📚 E-commer	ce						_
BizForms	Orders Custome	rs Products Product options	Manufacturers Supplie	rs Discount coupons	Discount levels	Reports Configuratio	n	
📲 Blogs	Discount coupons	 New discount coupon 						0
Content staging	Discount coupon r	ame: new discount coupon						
E-commerce	Discount coupon o							
🖫 File import		Absolute discount	Relative discount					
a Groups	Discount value: Valid from:	100 2/25/2010 15:18:14	Now Now					
🖏 Media libraries	Valid to:	2/25/2010 15:10:14	Now					
Newsletters Polls		ОК	-					
Reporting								
🔤 Web analytics								

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 - A	Add some pro	ducts t	to the sho	pping	cart							
		•	2	•	2	•		۵		•		
Shopping	cart											
										Cur	rrency: U.S.	Dollar 💌
Remove	Product na	me	Uni	ts	Unit pri	ce	Unit dis	count	Тах		Subtotal	
	Apple MacE	Book Aii	5		:	2094.0	• (100.00	>	0.0	0 🇳	⊃ _{9970.00}
					lf you h	ave a c	oupon code	, please	enter it he	ere: A5	93KL	
										-	Total shippin	a: \$0.00
											Total price:	\$9970.00
Empty											\subset	Update
Continue	shopping											Check out

Discount levels

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

>	Kentico CMS Desk						5	Switch to Site	Manager Site:	E-commerce sit	e 💌 Use	er: Global Administrator v5.0.3	688 Sign out
1	CMS Desk	Content	My desk	Tools	Administration								
	ols Abuse report		🔭 E-co	ommer	се								· · ·
	BizForms		Orders	Custome	rs Products	Product options	Manufacturers	Suppliers	Discount coupons	Discount levels	Reports	Configuration	
	Blogs		Discount l		New discount lev	ما							0
	腸 Booking system		Diocountin										<u> </u>
	Content staging Custom tables		Display p		o customers								
	E-commerce		Code nan		² customers								
	File import												
	S Forums		Value:	10				%					
	🍇 Groups		Valid from	n: 2/2	5/2010 15:29:4								
	👼 Media libraries		Valid to:			Now Now							
	Message boards		Enabled:	V									
	🗐 Newsletters 🥟 Polls				OK								
	Reporting												
	Web analytics												
		Y											

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

Kentico CMS Desk Content	My desk Tools Adminis	Switch to Site Manager Site: E-commerce site 💌 User: Global Administrator v5.0.3688	Sign out
Tools Abuse report	E-commerce		
BizForms	Orders Customers Pro	ducts Product options Manufacturers Suppliers Discount coupons Discount levels Reports Configuration	
Blogs	Customers + Simons David		0
Content staging	General Addresses	Orders Credit Newsletters Login	_
E-commerce	First name:	David	
🖫 File import	Last name:	Simons	
& Groups	Company:		
Media libraries	Organization ID:		
📋 Message boards	Tax registration ID:		
Mewsletters	E-mail:	DavidSimons@example.com	
🥏 Polls 🐚 Reporting	Phone:	Davidointons@example.com	
Web analytics	Fax:		
- ·	Preferred currency:	U.S. Dollar	
•	Preferred payment method:		
Ļ	Preferred shipping option:	(none)	
	Country/state:	(none)	
	Enabled:	(none)	
	Discount level:	VIP customers	
	Discount level.	OK	
		UN	

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

Step 1 of 6 - A	dd some products t	o the shopping o	art				
	;	8 +	▲	÷		•	•
Shopping	cart						
						Currency: U	.S. Dollar 💌
Remove	Product name	Units	Unit price	Unit discount	Tax	Subt	otal
	Apple MacBook Air	5	2094.00	209.40)	0.00	<i>P</i> 9423.00
			If you have a c	oupon code, please	enter it he	re:	
Empty						Total ship Total pric	
Continue	shopping						Check out

Volume discounts

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

Kentico CMS Desk Content My des	Switch to Site Manager Site: E-commerce site Vuser: Global Administrator v6.0.3688	Sign out
Image: Copy Image: Copy Image: Copy New Delete Image: Move Down Content management Content management	Edit Preview Live site List View mode	0
Content management	Page Design Form Product Properties Image: Design Documentis a product General Tax dasses Volume discounts Image: Design Unitaria Documents Image: Design Volume discount Discount value Image: Design Image: Design Discount value Image: Design Image: Design Image: Design Image: Design Image: Design Discount value Image: Design Image: Design Image: Design Image: Design	

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 - A	Add some products to	the shopping o	art				
	;	2 +	2	-		+	
Shopping	cart						
						Currency: U.S. Dollar	•
Remove	Product name	Units	Unit price	Unit discount	Tax	Subtotal	
	Apple MacBook Air	5	2094.0	0 418.80	>	0.00	0
			If you have a c	oupon code, please	enter it he	re:	
						Total shipping: \$0. Total price: \$8376.	
Empty						Update	
Continue	shopping					Check o	ut

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

Shopping cart - Product price detail Webpage Dialog			x	
Product price detail				
Apple MacBook Air			ń	
Unit price without tax		\$2094.00		
Discounts	Per unit			rrency: U.S. Dollar 💌
- VIP customers	-10%	-\$209.40		Subtotal
- Volume discount for minimal amount of 3 units	-20%	-\$376.92		.0 - 27538.40
Total discount		-\$586.32	E	
Price after discount		\$1507.68		Total shipping: \$0.00
				Total price: \$7538.40
Taxes				Update
Total tax		+\$0.00		
Price with tax		\$1507.68		
Total				Check out
Units		5	-	
		Close		
http://localhost/Manuals/C 🗣 Local intranet Protected M	ode: Off			
Kentico				

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

Kentico CMS 5.5 R2 E-commerce Guide

6.23 Deleting old shopping carts

166

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 <u>Web.config settings</u> chapter for more details.

This task erases 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. They are then required to enter their name and e-mail and they become a customer. If this anonymous user, for whatever reason, doesn't get through all steps of the checkout process, they remain in the system as anonymous customers with no order.

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

Kentico CMS Site Manager							Switch to CMS Desk	User: Global Administrator v5.0.3688	Sign out
CMS Site Manager	Sites	Administration	Settings	Development	Licenses	Support			
Administration Administration Administration Avatars Bad words Bad ges		T <mark>ask propertie</mark> luled tasks ► Dele		ping carts					0
Badyes Badyes Badyes Badyes E-mail queue Event log Event log Recycle bin Badyes Roles Scheduled tasks System U personalization Users Web farm	Task Task Task	display name: name: assembly name: class name: interval:	Ecommer CMS.Eco CMS.Eco Period:	d shopping carts cce. DeleteOldShi mmerce mmerce.Shoppin : 1/30/2007 11:5 1 Day 2 Monday 2 Monday 2 Tuesday 2 Wednesday 2 Thursday 2 Friday	oppingCarts ngCartClean 50:00	er ® <u>Now</u> y			
	Delet	data: enabled: e task after last ru r name:	Г п: ОК						

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

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Purchase process and payment gateways

7 Purchase process and payment gateways

7.1 Purchase process overview

168

The standard purchase (checkout) process looks like this:

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

- Continue as anonymous customer - this option doesn't require the user to create a user account, but they need to enter their 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.
- 8. 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.

For each step, you can specify the following values:

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

See chapter <u>Developing custom dialogs for the checkout process</u> 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

E-commerce starter site	Electron	nics for you	2		Shot	oping cart Total p	My account M	4y wishlist \$537.30
Search	Home Ne	ws Products	How to buy	Company	Silverlight		Global Administrat	or Sign out
Products	Step 1 of 6 - A	dd some products to	the shopping c	art				
 » Cameras » Cell phones » MP3 Players » Notebooks » PDAs 		;	2 -	₽ →	- 00		• 🔊)
» PDAS » PCs	Shopping o	cart					-	
	Remove	Product name	Units	Unit price	Unit discoun	t Tax	Currency: U.	
Poll How did you find this site?		Canon Digital Rebe		597.0			0.00	₽ 537.30
Referred by a friend				lf you have a	coupon code, plea	se enter it h	ere:	
Print advertising Link from another web site Search engine Vote	Empty						Total shi Total pric	
Quick links » <u>How to buy</u> » <u>Company</u> » <u>News</u> » <u>Home</u>	Continue s	hopping					(Check out
			Ken	tico				

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

💭 E-commerce							
Orders Customers Products	Product options Manufacturers	Suppliers	Discount coupons	Discount levels	Reports	Configuration	
Customers Administrator Global							0
General Addresses Orders	Credit Newsletters Login						
Orders • New order							0
Step 1 of 5 - Select billing and ship	ping address						
Billing address Billing address:	(new)		•				
Name (company or personal):							
Address lines:	Global Administrator						
City:							
ZIP:							
Quantum	USA		-				
Country:	(none)		-				
Phone number:							
Shipping address							
My shipping address is differe	ent from the billing address.						
Back							Next

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

沟 E-c	ommerce									
Orders	Customers	Products	Product options	Manufacturers	Suppliers	Discount coupons	Discount levels	Reports	Configuration	
Orders •	New order									0
Step 1	of 6 - Select c	ustomer								
Cust	omer									
С	ustomer detail	or its part:		Sear	ch					
										 Next

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

1 ▶ 3									
neral Shippi	ng Billing	Items Invoice	History						
1 of 2 - Add	some product	s to the shopping	cart						
hopping car		o to the shopping	curt						
Add item							Ci	Irrency: U.S	S. Dollar 💌
Remove	Product na	me		Units	Unit price	Unit discount	Тах	Subto	tal
	Creative ZE	N		1	150.00	15.00	20.2	5 🔎	155.25
	Samsung S	GH i620		1	650.00	65.00	0.0	0 🔎	585.00
	- Red			1	0.00	0.00	0.0	0 🔎	0.00
	Nikon Cool	pix S51		1	1950.00	598.65	0.0	0 🔎	1351.35
					If you have a cou	ipon code, please	enter it here:		
								shipping:	\$0.00
Empt	v						Tota	price:	\$2091.60 Update
Linp	.y								opulate

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 <u>checkout process types</u> 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
        // 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]

<u>Please note</u>: If you installed the Kentico CMS project as a web application, you need to rename the *CodeFile* property on the first line to *Codebehind* for the code example to be functional.

```
<tasp:Label ID="lblComment" runat="server" />

<tasp:TextBox ID="txtComment" runat="server" TextMode="MultiLine" Rows</td>

="3" />
```

[MyStep.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.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");
        lblComment.Text = ResHelper.GetString("MyStep.Comment");
        // Display rounded and formatted total price
        lblTotalPriceValue.Text =
CurrencyInfoProvider.GetFormatedPrice(ShoppingCartInfoObj.RoundedTotalPrice,
ShoppingCartInfoObj.CurrencyInfoObj);
        if (!this.ShoppingCartControl.IsCurrentStepPostBack)
        {
            // Load customer comment
            txtComment.Text = this.ShoppingCartInfoObj.ShoppingCartCustomData[
"CustomerComment"];
        }
    }
    /// <summary>
    /// Validates current step data.
    /// </summary>
    /// <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);
            // 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
    /// </summary>
   public override void ButtonNextClickAction()
    {
```

176

```
// If customer is registered and is a member of role "VipCustomers"
        if ((this.ShoppingCartInfoObj.UserInfoObj != null)
            && (this.ShoppingCartInfoObj.UserInfoObj.IsInRole("VipCustomers",
 this.ShoppingCartInfoObj.SiteName)))
        ł
            if (IsValid() && ProcessStep())
            {
                try
                ł
                    // Load extra step for VIP customers which is not included
     // in standard checkout process definition
                    ShoppingCartStep ctrl =
(ShoppingCartStep)this.Page.LoadControl("~/CMSEcommerce/ShoppingCart/MyVipStep.
ascx");
                    this.ShoppingCartControl.LoadStep(ctrl);
                    // 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]

<u>Please note</u>: If you installed the Kentico CMS project as a web application, you need to rename the *CodeFile* property on the first line to *Codebehind* for the code example to be functional.

```
<%@ Control Language="C#" AutoEventWireup="true" CodeFile="MyVipStep.ascx.cs"
Inherits="MyVipStep" %>
<asp:Label ID="lblError" runat="server" EnableViewState="false" Visible="false"><//
</pre>
```

```
asp:Label>
<asp:Label ID="lblComment" runat="server" />
<asp:TextBox ID="txtComment" runat="server" TextMode="MultiLine" Rows="3" />
```

[MyVipStep.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.GlobalHelper;
using CMS.Ecommerce;
using CMS.EcommerceProvider;
public partial class CMSEcommerce_TestVipCustomers : ShoppingCartStep
ł
    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"]);
        }
    }
    /// <summary>
    /// Process current step data
    /// </summary>
    /// <returns></returns>
    public override bool ProcessStep()
    ł
        // 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 them 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 their 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 <u>Customer credit</u> chapter.
- Authorize.NET the customer pays using their card. See <u>Authorize.NET configuration</u> for more details.
- **PayPal** the customer pays using their card or PayPal account. See <u>PayPal configuration</u> for more details.

• **Custom payment gateway** - you can integrate some other payment gateway using your code. See <u>Developing custom payment gateways</u> 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 website and the credit card processing networks.

See Authorize.NET Getting Started Guide at <u>http://www.authorize.net/files/ecommerceguide.</u> pdf 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
- 2. 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.
- 3. 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 their 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.

E-commerce	Electronics for you Shopping cart My account My wishlist Image: Control of the state of th
starter site	start all a start
Search	Home News Products How to buy Company Silverlight Global Administrator Sign out
Products	Step 6 of 6 - Payment
 Cameras Cell phones MP3 Players 	🤹 + 🤰 + 💷 + 🗐 + 📄 + ờ
» Notebooks » PDAs	Your order was saved.
» PDAS » PCs	Payment summary
	Order ID: 4
Poll	Payment method: Credit card
How did you find this site?	Total price: \$537.30
Referred by a friend Print advertising	Your credit card details
C Link from another web site	Credit card number: 1222365948790015 *
O Search engine	Credit card CCV: 528 *
Vote	Credit card expiration: 01 - 2019 -
Quick links	Skip payment Finish payment
» <u>How to buy</u> » <u>Company</u> » <u>News</u> » <u>Home</u>	

7.6 PayPal configuration

What do I need?

- 1. Kentico CMS 3.0 or higher with built in PayPal support.
- 2. **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
- 2. 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 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 https://www.sandbox.paypal.com//cgi-bin/webscr as your payment gateway url and sign up for PayPal SandBox testing environment, see https://www.paypal.com/IntegrationCenter/ic_sandbox.html 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 the user 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 <u>Payment methods</u> 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 .lf 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 their 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:

- It is not secure to send credit card information as a part of payment gateway url. Customers usually asked for their credit card number after they are 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 their website, see caption PayPal (IPN Instant Payment Notification).

Orders Customers	Products Product options Manufac	turers Suppliers Discount coupons	Discount levels	Reports	Configuratio				
Store settings	💽 New payment method								
Departments Shipping options	Payment method New payment method								
Payment methods									
Tax dasses	Payment method display name:	Custom gateway							
Currencies	Payment method code name:	CustomGateway							
Exchange rates	Enabled:								
Order status	Payment gateway settings								
Public status	Payment gateway URL : http://www.somePaymentGateway.com								
Internal status	Payment gateway assembly name: CMS.CustomProvider								
Invoice	Payment gateway class name:	CMS.CustomProvider.CustomGate	way						
	Order status when payment succeeds:	Payment received	•						
	Order status when payment fails:	Payment failed	-						
		ОК							

Example of custom payment gatew ay 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 - Payment								
Your order was saved. ◆ 28 → 25 → 55 → 55 → 55 → 55 → 55 → 55 →	>							
Payment summary								
Order ID: 5								
Payment method: Custom gateway								
Total price: \$537.30								
Your credit card details								
Credit card number:								
Skip payment	Finish payment							

CustomGatewayForm.ascx

<u>Please note</u>: If you installed the Kentico CMS project as a web application, you need to rename the *CodeFile* property on the first line to *Codebehind* for the code example to be functional.

```
<%@ 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:TextBox ID="txtCardNumber" runat="server" />
```

CustomGatewayForm.ascx.cs

[C#]

186

```
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
        lblTitle.Text = "Your credit card details";
        lblCardNumber.Text = "Credit card number:";
    }
    /// <summary>
    /// Initializes form controls with customer payment data.
    /// </summary>
    public override void LoadData()
    ł
        // Display customer credit card number
        txtCardNumber.Text = ValidationHelper.GetString(this.ShoppingCartInfoObj.
PaymentGatewayCustomData["CustomGatewayCardNumber"], "");
    }
    /// <summary>
    /// Validates customer payment data.
    /// </summary>
    /// <returns></returns>
    public override string ValidateData()
        if (txtCardNumber.Text.Trim() == "")
        {
            lblError.Visible = true;
```

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```
lblError.Text = "Please enter your credit card number";
            return lblError.Text;
        }
       return "";
    }
   /// <summary>
   /// Process customer payment data.
   /// </summary>
   /// <returns></returns>
   public override string ProcessData()
    {
       // Save credit card number
       this.ShoppingCartInfoObj.PaymentGatewayCustomData[
"CustomGatewayCardNumber"] = txtCardNumber.Text.Trim();
       return "";
   }
}
```

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#]

```
using System;
using System.Collections.Generic;
using System.Text;
using System.Web;
using System.Collections;
using CMS.EcommerceProvider;
using CMS.GlobalHelper;
using CMS.UIControls;
using CMS.ExtendedControls;
namespace CMS.CustomProvider
{
    /// <summary>
    /// Class representing Custom Gateway processor.
    /// </summary>
    public class CustomGateway : CMSPaymentGatewayProvider
    {
        /// <summary>
        /// Returns payment gateway form with custom controls.
        /// </summary>
        /// <returns></returns>
        public override CMSPaymentGatewayForm GetPaymentDataForm()
        {
            trv
            {
```

```
return (CMSPaymentGatewayForm)this.ShoppingCartControl.LoadControl
("~/CMSEcommerce/Example/CustomGatewayForm.ascx");
            }
            catch
            {
                return null;
            }
        }
        /// <summary>
        /// Process payment.
        /// </summary>
        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();
            }
        }
        /// <summary>
        /// Returns table with initialized payment parameters.
        /// </summary>
        /// <returns></returns>
        private Hashtable InitializePaymentParameters()
        {
            Hashtable parameters = new Hashtable();
            parameters["orderid"] = this.ShoppingCartInfoObj.OrderId;
            parameters["price"] = this.ShoppingCartInfoObj.TotalPrice;
            parameters["currency"] = this.ShoppingCartInfoObj.CurrencyInfoObj.
CurrencvCode;
```

188

```
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>
        /// <returns></returns>
       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:

190

- 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 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, their credit is decreased by specified amount which is equal to the order total price in default currency and the order payment result is updated.

Step 6 of 6 - Paymer	nt								
Your order was save	ed.	2	•	2	•	.	•	*	>>
Payment summ	ary								
Order ID:	6								
Payment method:	Customer cre	dit							
Total price:	\$155.25								
Use credit for payment									
Available credit: \$1000.00									
Skip payment									Finish payment



Developing custom providers

8 Developing custom providers

8.1 Overview

194

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.

[C#]

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

[C#]

```
using CMS.Ecommerce;
using CMS.SettingsProvider;
using CMS.SiteProvider;
public double CalculateShipping(object cartObj, string siteName)
            CMS.Ecommerce.ShoppingCartInfo cart = cartObj as CMS.Ecommerce.
ShoppingCartInfo;
            if (cart != null)
            ł
                if ((cart.UserInfoObj != null) && (cart.UserInfoObj.IsInRole(
"VIPCutomers", siteName)))
                ł
                    // Free shipping for VIP customers
                    return 0;
                }
                else
                ł
                    // Get shipping address details
                    CMS.Ecommerce.AddressInfo address = CMS.Ecommerce.
AddressInfoProvider.GetAddressInfo(cart.ShoppingCartShippingAddressID);
                    if (address != null)
                        // Get shipping address country
                        CountryInfo country = CountryInfoProvider.GetCountryInfo
(address.AddressCountryID);
                        if ((country != null) && (country.CountryName.ToLower() !
= "usa"))
                         {
                            // Add an extra charge to standard shipping price for
non-usa customers
                            double extraCharge = SettingsKeyProvider.
GetDoubleValue("ShippingExtraCharge");
                            return CMS.CMSEcommerce.ShippingOptionInfoProvider.
CalculateShipping(cart, siteName) + extraCharge;
                    }
                }
            }
            // Get standard shipping price in other cases
            return CMS.CMSEcommerce.ShippingOptionInfoProvider.CalculateShipping
(cart, siteName);
ł
```

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.

2. Copy the C:\Program Files\Kentico CMS\<version>\CodeSamples\CustomECommerceProvider directory to your working directory and add the project **CustomECommerceProvider.csproj** to your solution.

3. Add the following references from your web project /bin directory:

- CMS.CMSHelper.dll
- CMS.DataEngine.dll
- CMS.Ecommerce.dll
- CMS.GlobalHelper.dll
- CMS.IECommerce.dll
- CMS.SettingsProvider.dll
- CMS.SiteProvider.dll
- CMS.Staging.dll

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.

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 CurrencylsMain 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 customer 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 Ecommerce 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.

8.8 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.

8.9 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.

8.10 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.

8.11 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.

8.12 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).

8.13 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 email 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.

8.14 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.

8.15 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.

8.16 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.

8.17 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.

8.18 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.

210

8.19 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.

8.20 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.

8.21 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.

8.22 CustomSKUInfoProvider

This provider manages the products (SKUs). It uses the SKUInfo class.

- object GetSKUInfo(int sKUId) returns the SKUlnfo 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 skuld) moves specified product option down within the parent product option category.

Read also: Using the Product datalist web part

8.23 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.

8.24 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 skuld) 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.

216

8.25 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.

8.26 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**.



Figure A: Tax calculation process

9 Figure A: Tax calculation process

The following figure shows how the tax is calculated:

Taxes





Figure B: Discount calculation

10 Figure B: Discount calculation

The following figure shows how discounts are calculated:

Discounts





Figure C: Shopping cart price calculation

11 Figure C: Shopping cart price calculation

The following figure shows how the total price is calculated:







Figure D: Shopping cart retrieval

12 Figure D: Shopping cart retrieval

The following figure shows how the shopping cart is retrieved for the current visitor:



Index

- A -

Adding items to the shopping cart 116 Adding items to the wish list 119

- C -

Company details changing 37 Configuration settings countries and states 142 currencies 137 customers 127 149 customizing an e-mail template customizing invoice template 149 deleting old shopping carts 166 departments 135 discount coupons 132 133 discount levels discounts overview 160 enabling the e-commerce module 140 138 exchange rates internal status 139 invoice 139 147 localization manufacturers 132 mapping document fields 144 multi-site configuration 143 order status 138 orders 126 overview 125 payment methods 136 product options 131 products 129 public status 139 reports 133 security 142 shipping options 135 sitemanager settings 144 store 134 suppliers 132 137 tax classes using product inventory 155

web.config settings 145 Custom providers CustomAddressInfoProvider 197 CustomCurrencyInfoProvider 197 CustomCustomerInfoProvider 199 CustomDepartmentInfoProvider 199 CustomDiscountCouponInfoProvider 200 CustomDiscountLevelInfoProvider 201 CustomExchangeTableInfoProvider 202 CustomInternalStatusInfoProvider 203 CustomManufacturerInfoProvider 203 CustomOptionCategoryInfoProvider 204 CustomOrderInfoProvider 205 CustomOrderItemInfoProvider 206 CustomOrderStatusInfoProvider 207 CustomOrderStatusUserInfoProvider 207 CustomPaymentOptionInfoProvider 208 CustomPublicStatusInfoProvider 209 CustomShippingOptionInfoProvider 210 CustomShoppingCartInfoProvider 210 CustomShoppingCartItemInfoProvider 212 **CustomSKUInfoProvider** 212 CustomSupplierInfoProvider 214 CustomTaxClassInfoProvider 214 CustomVolumeDiscountInfoProvider 216 overview 194 Product datalist web part 216 using 195

- D -

Discount calculation 220

- F -

First purchase 9

- | -

Images displaying 92 overview 92 resizing 96 storing 96 Integration with existing site overview 75

- 0 -

226

Overview 7

- P -

Product adding new 14 adding product options 18 adding to multiple categories 26 customizing product categories 22 displaying featured products 30 sorting and paging 33 Product datalist web part 216 Product fields adding custom fields 57 adding images 54 customizing product design 51 defining new product type 44 Product price displaying 120 Product URL getting 121 Purchasing and payment Authorize.NET configuration 179 custom checkout dialogs 172 custom payment gateways 183 customer credit 191 customizing 169 overview 168 payment gateways 178 payment results 189 PayPal configuration 180

- S -

Searching 122 Shopping cart price calculation 222 Shopping cart retrieval 224

- T -

Tax calculation process 218 Tools BizForms 100 Blogs 101

Booking system 102 Content staging 103 Event calendar 104 File import 105 Forums 106 GeoMapping 108 Image gallery 108 Messaging 109 Newsletters 110 overview 99 Polls 111 Reporting 112 RSS feeds 113 User contributions 113 Web analytics 114 Web farm synchronization 115

- W -

Web design colors using CSS styles 71 customizing master page 62 Web parts my account 76 random products 78 82 shopping cart shopping cart preview 85 similar products by sale 87 top N products by sale 88 wishlist 90