

This presentation provides a summary of the updates to the order component in WebSphere<sup>®</sup> Commerce V7.0 feature pack 1.

|  | IBM                    |
|--|------------------------|
| Goals  |                        |
|  |                        |
|  |                        |
| <ul> <li>To understand the changes made to assist in order flow customization</li> </ul> |                        |
| <ul> <li>To understand new order capabilities</li> </ul>                                 |                        |
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At the end of this presentation, you should understand the changes made to the order component to assist in store development and customization activities. You should also understand the new order capabilities that are available and how to configure them.



This presentation begins with an overview of the changes made to the order component in feature pack 1 and how they fit into the overall effort to reduce the total cost of ownership and implementation. The next section introduces several documentation enhancements and covers the command refactoring introduced to simplify customization. The remainder of the presentation focuses on new capabilities added in feature pack 1. These include non-ATP inventory sharing for extended sites, tax sharing for extended sites and value added tax support.



The order flow is one of the most frequently customized parts of WebSphere Commerce business logic. Customizing the order flow requires an understanding of the existing flow and the various commands that provide specific parts of the business logic. Making the order flow easier to customize begins with enhanced documentation. The Reference section of the V7 Information Center has been updated with detailed flow diagrams that document the existing order commands and state transitions of an order during processing. You can use these diagrams to understand the overall flow and pinpoint the area you need to customize. Another addition to the Information Center is detailed task command descriptions. Task commands are often the piece of logic you need to replace with custom code and the new documentation describes the behavior of each of the primary order task commands. Existing documentation on controller commands had been enhanced to add much richer behavior detail. To make it easier to replace a specific piece of logic, some of the task commands have been refactored and others have been created.

Feature pack 1 also provides new business logic to support some frequent order flow customizations. The extended sites model now supports non-ATP inventory and tax rule definition at the asset store level. This means fulfillment centers and tax rules can be defined once and shared among multiple extended sites. Another new feature is the support for Value Added Tax in addition to the traditional tax models.



This slide shows how the order-related TCOI improvements fit into the larger TCOI picture.



This section covers the new documentation available and the command refactoring work.



The Reference section of the Information Center contains several new sections in feature pack 1. The existing documentation has also been enhanced, particularly the Behavior sections of the URL documentation.



This overall shopping flow diagram is now provided in the Information Center. It summarizes the various shopping scenarios including the service calls, optional commands, controller commands and views. On this page you can also find a list of typical parameters passed from the store front to the service for each step of the flow.

Numbered points in the diagram

1. OrderItemDisplay (optional) is redirected.

2. OrderCalculate can be called by OrderItemAdd or OrderItemUpdate internally by specifying a parameter "calculateOrder=1", and it can also be redirected after OrderItemAdd or OrderItemUpdate through a URL parameter.

3. OrderItemDelete, PIEdit, and PIRemove (optional) are invoked by another user action, not a redirect from previous commands.

4. OrderPrepare is automatically called by OrderDisplay and might also be directly called by store.



This is an example of one of four order status transition flow diagrams provided in the Information Center. The three other diagrams provide simplified views for ATP shopping flow, non-ATP shipping flow and the order approval process. In addition to these diagrams, you can find a summary chart of the state transitions and which controller command can trigger the change.

|   |   | B                 |
|---|---|-------------------|
| a | sk command documentation  |                   |
| I | PrepareOrderCmd task command  |                   |
| - | The PrepareOrderCmd task command prepares an order by determining prices, discounts, shipping charges, and taxes order.   | for an            |
|   | Task command  |                   |
| I | PrepareOrderCmd   |                   |
| ] | Implementation class  |                   |
| I | PrepareOrderCmdImpl   |                   |
|   | Commands called   |                   |
| I | DoInventoryActionCmd  |                   |
| I | Possible callers  |                   |
| ( | OrderCopyCmdImpl  |                   |
| ( | OrderPrepareCmdImpl   |                   |
| ł | PreProcessCmdImpl   |                   |
| I | Behavior  |                   |
|   | Call DoInventoryActionCmd to get default ATP parameters   |                   |
|   | Call OrderProcessingHelper to do the following operations:<br>• Remove generated order item<br>• Ensure all order items are buyable. Throw an exception if one or more items are not buyable<br>• Call UpdateShippingAddressCmd to find the appropriate shipping address for all the order items and update them<br>each order item. If the order item is a dynamic kit, call ValidateDynamickitConfigurationCmd to do validation<br>• Call ResolveOrderItemPriceCmd to calculate the best price and update order total<br>• Call DoInventoryActionCmd to check and allocate inventory if necessary | for               |
|   | Order updates   | 2010 IBM Corporat |

A large volume of new material has been added to the Information Center for order task commands. This screen capture is an example of one. When you need to replace or extend a task command, this new section allows you to easily access the information you need to find out what impact the change will have. A few new task commands have been added in feature pack 1 but most of this information is relevant to the base V7 code.



Feature pack 1 introduces some new task commands. These commands provide a single point of customization for logic that was previously duplicated in two or more commands.

ResolveOrderItemPriceCmd handles the integration logic between the order and price components. This task command centralizes logic from many different controller commands down to one single integration point between the two components. This makes customization of this integration point much faster.

CalculateOrderCmd handles the core calculation logic and free gift handling if needed. Of the three controller commands that require calculation logic, only two are able to use the new task command in feature pack 1. PromotionEngineOrderCalculateCmdImpl does not use the shared task command.

If you have created a custom version of OrderProcessingHelper and pass it to PrepareOrder your custom code is not invoked in feature pack 1. If the custom code is still needed, you should extend CalculateOrderCmd instead.



This section introduces the non-ATP inventory sharing feature.



The sharing of non-ATP inventory reduces the complexity of managing inventory assets for all the stores in the site. When non-ATP inventory is shared, it is a pool of inventory that can be drawn upon by more than one store. The inventory data is used to satisfy orders or otherwise provide the data necessary to evaluate business rules that are dependent upon inventory quantities during the buying process. Individual extended site stores can access inventory from one or more shared fulfillment centers. The SHPARRANGE table specifies the sequence in which to check fulfillment centers for inventory.



This flow shows an example of the inventory evaluation flow. If inventory sharing is configured, the asset store fulfillment center is checked. If inventory sharing has not been enabled, the extended site store must have its own fulfillment center defined. If an inventory record exists but the quantity is not enough to fulfill the order the result is 'out of stock'. Additional fulfillment centers are not checked and inventory from multiple fulfillment centers cannot be combined.

|   | IBM                    |
|---|------------------------|
| Updated business logic  |                        |
|   |                        |
| <ul> <li>These have been store path enabled         <ul> <li>InventoryBaseCmdImpl</li> <li>ComposeNonATPInventoryAvailabilityCmdImpl</li> </ul> </li> </ul> |                        |
|   |                        |
|   |                        |
|   |                        |
|   |                        |
|   |                        |
|   |                        |
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Both the InventoryBaseCmd controller command and ComposeNonATPInventoryAvailabilityCmd service have been updated to be store path enabled.



Configuring shared inventory is fairly straight forward. As with any other shared asset, a row needs to be added to the STOREREL table to identify the asset store where inventory can be found. The relationship type for inventory is -13. Once you have defined your global fulfillment centers in the asset store, you use the SHPARRANGE table to specify which fulfillment centers an extended site can use. If more than one fulfillment center is available the PRECEDENCE column is used to specify the order in which they are accessed.



If you manage fulfillment centers and inventory with Accelerator, some customization is required to make these features available in an asset store. The steps for adding these menu options to the asset store are documented in the Information Center. You can view shared inventory when logged into an extended site but adjustments are not allowed. To adjust inventory, you must log in to the asset store directly.



This slide shows the trace information for FetchInventoryAvailabilityCmd. This trace was captured after loading the product display page for a product with inventory in a shared fulfillment center. Notice that the fact the inventory is found in a shared store is specified in the trace.



This slide shows the trace information for InventoryBaseCmd. This trace was captured after a product with shared inventory was added to the shopping cart. Notice that the findInventory method logs when it looks up the shared store ID.



This section introduces the tax sharing feature.



Feature pack 1 also supports sharing tax assets. Once sharing is enabled, both sales tax and shipping tax are calculated using the asset store codes, categories and jusisdictions.



The process for configuring shared tax is documented in the Information Center. First you need to update the CALUSAGE table to specify the store relationship type com.ibm.commerce.tax. Once the calculation usage is configured, you update the STOREREL table to identify the asset store where the tax assets can be found. Finally, you define the tax assets for the asset store. This final step requires some updates to Accelerator which are described on the next slide.



Similar to fulfillment centers and inventory, asset stores in Accelerator are not configured to create tax assets by default. When you enable tax sharing, you also need to customize Accelerator to add the 'Change Tax' menu option. In order to create and edit tax assets, the store must have complete address information in STOREENTDS.

|  |   | IBM                    |
|--|---|------------------------|
| Checkout   | with shared tax code  |                        |
|  |   |                        |
|  |   |                        |
| Trace: com.i   | bm.websphere.commerce.WC_CALCULATION  |                        |
| CalculationHelpe                                     | r.applyCalculationUsages taxCategoryIds(storeId=11001,usageId=-3)={10201  | }                      |
| CalculationHelpe                                     | r.applyCalculationUsages checkAppliedItems(storeId=11001,usageId=-3)=fals   | e                      |
| ApplyCalculation                                     | UsageCmdImpl.performExecute Entry   |                        |
| TaxCalculationC                                      | odeCombineCmdImpl.performExecute Entry  |                        |
| TaxCalculationC<br>indirectlyAttach<br>3,timestamp=2 | odeCombineCmdImpl.getIndirectlyAttachedCodes<br>nedCodeIds(catalogEntryId=11145,contractId=10502,storeId11001,usageId=-<br>2010-04-27 15:24:23.718)={11251} |                        |
| TaxCalculationC<br>3,timestamp=2                     | odeCombineCmdImpl.getCodes codeIds(itemId=30001,storeId=11001,usagele<br>010-04-27 15:24:23.718)={11251}  | d-                     |
|  |   |                        |
|  |   |                        |
|  |   |                        |
|  |   |                        |
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|  |   |                        |
| 24   | Order updates   | © 2010 IBM Corporation |

This slide shows a shared tax category and tax code being retrieved for an extended sites store.



This section introduces the value added tax feature.

|                               |  | IBM                    |
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| Overviev                      | v  |                        |
|                               |  |                        |
|                               |  |                        |
| <ul> <li>New supp</li> </ul>  | ort for handling tax-included pricing    |                        |
| Can be co                     | onfigured for site or store level        |                        |
| <ul> <li>Cannot be</li> </ul> | e combined with default tax calculations |                        |
|                               |  |                        |
|                               |  |                        |
|                               |  |                        |
|                               |  |                        |
|                               |  |                        |
|                               |  |                        |
|                               |  |                        |
|                               |  |                        |
|                               |  |                        |
| 26                            | Order undelere                           | @ 2010 IBM Comparation |
| 20                            | Order updates                            | © 2010 IBM Corporation |

Value added tax support has been added in feature pack 1 to provide tax-included pricing. It can be configured at either the site or store level but cannot be combined with default tax calculations.



The implementation of VAT in feature pack 1 requires the tax amount be included in a product's offer price. The tax-included price is not calculated by WebSphere Commerce. With the tax included directly in the offer price, all adjustments to the order such as promotions and shipping calculations include the VAT amount. As a result of these changes, the meanings of some database columns change when VAT is enabled. The changes are reviewed on later slides. There are also VAT-specific versions of several existing order commands.



This slide compares a traditional order calculation with a VAT enabled order calculation. In both cases the offer price is \$200 and the tax rate is 5%. The tax amount in a traditional calculation is 5% of \$200 which is \$10. When VAT is enabled, the tax amount is already included in the \$200 offer price so a reverse calculation is used to determine what part of the \$200 is the tax. In this example it is \$9.52.

If the tax rate changes from 5% to 10% in the traditional calculation, the total after tax changes from \$210 to \$220. With VAT enabled, the total remains \$200 and the tax portion of the \$200 changes to \$18.18. When VAT is enabled, it is important to remember that any tax rate information is only used in the reverse tax calculation.



This slide compares a promotion calculation. This time the two products have the same before tax price of \$200. With a tax rate of 5%, the offer price when VAT is enabled becomes \$210. When a \$25 discount is applied in the traditional order calculation, it reduces the pre-tax price and therefore reduces the amount of tax paid. With VAT enabled, the tax-included offer price is reduced by the discount amount and so the resulting total is slightly higher.



The slide shows the formula used by the calculation framework to do the reverse tax calculation. In this example the tax-included price is \$200, the tax rate is 5% and a \$40 discount is applied to the order.

| roduct    |   | Expedite Shipping | Availability | Qty | Each                          | Total               |
|-----------|---|-------------------|--------------|-----|-------------------------------|---------------------|
| 0         | All season passenger tire<br>SKU: A0000511<br>Change Attributes<br>Contract: Elite Contract number 1234<br>Remove |                   | In-Stock     | 1   | \$200.00                      | \$200.00            |
|           |   |                   |              |     | Order Subtotal:               | \$200.00            |
| $\bigcap$ | Without   | Promotional code: | Apply        |     | ① Discount:<br>Tax:           | (\$40.00)<br>\$8.00 |
|           |   |                   |              |     | Shipping:                     | \$10.00             |
|           | anabled   |                   |              |     | Shipping Tax:<br>Order Total: | \$0.00<br>\$178.00  |
| C         |   |                   |              |     |                               |                     |
| oduct     |   | Expedite Shipping | Availability | Qty | Each                          | Total               |
|           |   |                   |              |     |                               |                     |
|           | All season passenger tire<br>SKU: A0000511<br>Change Attributes<br>Contract: Elite Contract number 1234<br>Remove |                   | In-Stock     | 1   | \$200.00                      | \$200.00            |

Here you see a screen capture of the store checkout flow before and after VAT is enabled. Notice the different tax amounts. When VAT is enabled, the tax amount shown in the store is for display purposes only.

|        |               |                         | IBM                      |
|--------|---------------|-------------------------|--------------------------|
| OFFERP | RICE colun    | nn usage                |                          |
|        |               |                         |                          |
| Column |               | Default                 | With VAT enabled         |
| PRICE  |               | offer price without tax | offer price + tax amount |
|        |               |                         |                          |
|        |               |                         |                          |
|        |               |                         |                          |
|        |               |                         |                          |
|        |               |                         |                          |
|        |               |                         |                          |
|        |               |                         |                          |
| 32     | Order updates |                         | © 2010 IBM Corporation   |

The next two slides show the changes in the meaning of some database columns when VAT is enabled. As mentioned in the examples, the PRICE column in the OFFERPRICE table represents the combined offer price and tax amount when VAT is enabled.

| Column          | Default                       | With VAT enabled                           |
|-----------------|-------------------------------|--|
| PRICE           | offerprice.price, without tax | offerprice.price, with tax included        |
| TOTALPRODUCT    | price * quantity, without tax | price * quantity, with tax included        |
| TOTALADJUSTMENT | tax excluded                  | tax included                               |
| SHIPCHARGE      | Shipping charge               | Shipping charge with shipping tax included |

The ORDERITEMS and ORDERS tables also have several changes. The PRICE column of ORDERITEMS matches the PRICE column in OFFERPRICE and represents the taxincluded price. Similarly, the TOTALPRODUCT column also includes tax. When VAT is enabled, order adjustments are applied to the tax included price so the adjustment itself, stored in the TOTALADJUSTMENT column is considered to have tax included. Similarly, any shipping changes, stored in the SHIPCHARGE column have shipping tax included.

The corresponding columns in the ORDERS table that represent a total of all order items have the same usage changes.



Here you see a recap of the final order calculation with and without VAT enabled. When VAT is enabled, the TAXAMOUNT and SHIPTAXAMOUNT values are not included in the order calculation.

| IBM  |
|--|
| Impact on Accelerator and Sales Center   |
|  |
|  |
| <ul> <li>Unit price for each order item has VAT included</li> </ul>  |
| <ul> <li>Total VAT amount is displayed before completing an order and on the Order Summary page</li> </ul> |
| <ul> <li>Tax rates can still be set up but only impact reverse tax calculations</li> </ul>                 |
|  |
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|  |
| 35 Order updates © 2010 IBM Corporation  |

The impact to Accelerator and Sales Center is fairly minor. When VAT is enabled all displayed unit prices include the tax amount. The tax amount is still displayed during check out but for display purposes only.

If you manage tax rates in Accelerator, you can continue to do so for reverse tax calculation purposes. When the tax rate changes, new offer prices need to be loaded for the change to be reflected in the actual order total.

|   |  |                     |   |          |   |  |            | BM   |
|---|--|---------------------|---|----------|---|--|------------|--|
| VAT display   | y in Ac  | celera              | ntor  |          |   |  |            |  |
|   |  |                     |   |          |   |  |            |  |
| Order Summary   |  |                     |   |          |   |  |            |  |
| Order information   |  |                     |   |          |   |  |            |  |
| Order number:<br>Last updated:<br>Order status:<br>Originator logon ID:<br>Organization name:<br>Purchase order number: | 11502<br>2/17/10 6:3<br>Pending pay<br>buyer1<br>BuyerOrg1 | 32 PM<br>vment appr | oval  | Prie     | Ce including<br>VAT   |  |            |  |
| Product Name  | SKU  | Quantity            | Contract Name                                     | Expedite | Requested Ship Date   | Price  | Discount   | Total  |
| All season passenger tire   | A0000511   | 1                   | Elite Contract number 1234                        | Normal   |   | 200.00   | -0.00      | 200.00   |
|   |  |                     | Tax portion<br>calculated for<br>display purposes |          | Order leve<br>Minus a<br>Surcharge a<br>Origina<br>Shipping a<br>Total shippi<br>Order to | l discount<br>djustment<br>djustment<br>al shipping<br>djustment<br>ng charge<br>_Coupons<br>_Tax<br>tal [VSD] |            | 40.00<br>0.00<br>10.00<br>10.00<br>10.00<br>7.62<br>170.00 |
|   |  |                     |   |          |   |  |            |  |
| 36  | Order updates  |                     |   |          |   |  | © 2010 IBM | Corporation  |

This screen capture shows an example of how VAT information is displayed in Accelerator.



Enabling VAT support requires new implementations of several existing command interfaces.



This section introduces the configuration steps for the value added tax feature.

|     |                            |                 |              |   | IBM   |
|-----|----------------------------|-----------------|--------------|---|---|
| [   | Define cal                 | culation        | method       | S   |   |
|     |                            |                 |              |   |   |
|     |                            | _               |              |   |   |
| -   | CALMETHC                   | DD              |              |   |   |
| •   | Sales tax (-3<br>– com.ibm | 3)<br>1.commerc | e.order.calc | ulation.VATCalculationRuleCombineCmd                              |   |
|     | 0                          | ( ()            |              |   |   |
|     | Shipping tax               | ( (-4)          | a ardar aala | ulation MATColoulation Bula Combine Cond                          |   |
|     | - com.iom                  | i.commerc       | e.order.caic | ulation.vAl CalculationRuleCombineCmd                             |   |
|     |                            |                 |              |   |   |
|     |                            |                 |              |   |   |
|     |                            |                 |              |   |   |
|     |                            |                 | ,            |   |   |
| CAI | LMETHOD_ID ST              | OREENT_ID       | CALUSAGE_ID  | TASKNAME  | DESCRIPTION                                 |
|     |                            |                 |              |   | 'default method to identi<br>(referenced by |
| 1   | 109                        | 951 -           | -3           | 'com.ibm.commerce.order.calculation.VATCalculationRuleCombineCmd' | STENCALUSG.ACTR                             |
|     |                            |                 |              |   | when Value-Added-Ta:                        |
|     |                            |                 |              |   | default method to identi                    |
| 2   | 109                        | 951 -           | -4           | com.ibm.commerce.order.calculation.VATCalculationRuleCombineCmd   | (referenced by                              |
|     |                            |                 |              |   | when Value-Added-Ta                         |
|     |                            |                 |              |   |   |
| 3   | 9                          | Order updates   |              |   | © 2010 IBM Corporation                      |

The first step in enabling VAT support is registering the VAT calculation method for performing reverse tax calculations. This method is used for both sales tax and shipping tax.

|                          |                |            |             |         |             |               |              | IBM                  |
|--------------------------|----------------|------------|-------------|---------|-------------|---------------|--------------|----------------------|
| Map                      | calculation    | method     | to store    | ;       |             |               |              |                      |
|                          |                |            |             |         |             |               |              |                      |
|                          |                |            |             |         |             |               |              |                      |
| <ul> <li>STEN</li> </ul> | ICALUSG.ACT    | FRC_CALM   | IETHOD_IC   | )       |             |               |              |                      |
| Sot C                    | algulation     | Combino m  | othod for a | aloc to | v and chin  | oina tay ta y | voluos dofin | od in                |
|                          |                |            |             |         | ix and ship | Sing lax to   |              |                      |
| CALI                     | IETHOD         |            |             |         |             |               |              |                      |
|                          |                |            |             |         |             |               |              |                      |
|                          |                |            |             |         |             |               |              |                      |
| STORFFN                  | T IDCALUSAGE I | DACTCC CAL | METHOD ID   | ACTRC   | CALMETHOD   |               |              | OD TO APPCALA        |
| -1                       | -4             | -61        |             | -65     |             | NULL          | -232         | -233                 |
| 10951                    | -4             | -61        |             | 2       |             | NULL          | -232         | -233                 |
| -1                       | -3             | -41        |             | -45     |             | NULL          | -222         | -223                 |
| 10951                    | -3             | -41        |             | 1       |             | NULL          | -222         | -223                 |
|                          |                |            |             |         |             |               |              |                      |
|                          |                |            |             |         |             |               |              |                      |
|                          |                |            |             |         |             |               |              |                      |
|                          |                |            |             |         |             |               |              |                      |
|                          |                |            |             |         |             |               |              |                      |
|                          |                |            |             |         |             |               |              |                      |
|                          |                |            |             |         |             |               |              |                      |
|                          |                |            |             |         |             |               |              |                      |
|                          |                |            |             |         |             |               |              |                      |
| 40                       | Order update   | s          |             |         |             |               | ©            | 2010 IBM Corporation |
|                          |                |            |             |         |             |               |              |                      |

The next step is to configure the sales tax and shipping tax calculation usage for your store. The STENCALUSG table defines the various calculation methods used for each type of calculation in the store. Here you set the CalculationRuleCombine method to the new calculation method you registered in the previous step.



The final step is to register the VAT specific implementations of several order commands. You can find information on each of these new command implementations in the Information Center.



The Information Center includes some sample code for customizing your store to display VAT information on the product page and during checkout. Updating the product page requires a simple JSP change. The tax information is available in the ProductDataBean so you can display the VAT amount and the pre-tax price if needed.

The checkout flow customization example shows a more complex scenario where the tax name and tax rate are also shown. To make this information available at the order line item level, you need to customize the OrderCalculateCmd to store the sales tax and shipping tax names and rates in FIELD2 of the ORDERITEMS table. Once this data is available at the ORDERITEM level, you extend the order service to read the data and add it as name-value-pairs to the UserData section of the service response. Finally, update the checkout flow JSP files to show the extra information. An example of this customization is shown on the next slide.

| RODUCT         |  | AVAILABILITY | QTY | EACH     | TOTAL  |
|----------------|--|--------------|-----|----------|--|
|                | ite Fabric Roll Arm Chaise<br>9: FULO-0101 | In-Stock     | 1   | \$449.99 | \$449.99   |
| *              | Remove<br>Nove to Wish List                |              |     |          |  |
| Save 20% on Fu | miture!                                    |              |     |          | (\$90.00)<br>product vat1 : 10.00%<br>VAT amount : \$32.73000  |
| Red<br>SKU     | Leather Roll Arm Chaise<br>1: FULO-0201    | In-Stock     | 1   | \$649.99 | \$849.99   |
|                | Remove<br>Nove to Wish List                |              |     |          |  |
| Save 20% on Fu | miture!                                    |              |     |          | (\$129.99)<br>product vat1 : 10.00%<br>VAT amount : \$47.27000 |
| Wh<br>SKU      | ite Wing Chair<br>J: FULO-0301             | In-Stock     | 1   | \$499.99 | \$499.99   |
|                | Remove<br>Nove to Wish List                |              |     |          |  |

This screen capture shows an example of the tax name and rate and amount displayed for each order item.

|                                 |   | IBM                    |
|---------------------------------|---|------------------------|
| Limitation                      | IS  |                        |
|                                 |   |                        |
|                                 |   |                        |
| <ul> <li>VAT tax mo</li> </ul>  | odel cannot be combined with the existing tax model |                        |
| <ul> <li>VAT rate us</li> </ul> | sed for each order item is not recorded             |                        |
|                                 |   |                        |
|                                 |   |                        |
|                                 |   |                        |
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|                                 |   |                        |
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|                                 |   |                        |
|                                 |   |                        |
|                                 |   |                        |
|                                 |   |                        |
| 44                              | Order updates                                       | © 2010 IBM Corporation |

Once a store, or site, is configured to use VAT tax calculation it cannot also use the existing tax model. You can change back to using the existing tax model by reversing the configuration steps just discussed.

The VAT rate is not recorded at the order item level. The rate can be obtained using commands and some customization examples for displaying the rate in the store front are provided in the Information Center.



This trace sample shows some of the VAT-specific commands called during checkout. With the WC\_CALCULATION trace turned on, you can find the reverse tax calculation amount in the trace output.



This presentation began with an overview of the changes made to the order component in feature pack 1 and how they fit into the overall effort to reduce the total cost of ownership and implementation. The second section introduced several documentation enhancements and covered the command refactoring introduced to simplify customization. The remainder of the presentation focused on new capabilities added in feature pack 1. These include non-ATP inventory sharing for extended sites, tax sharing for extended sites and value added tax support.

|                                | TBN  |
|--------------------------------|--|
| Reference                      | ces  |
|                                |  |
|                                |  |
| <ul> <li>Overall sh</li> </ul> | nopping flow diagram   |
| http://publib.bould            | der.ibm.com/infocenter/wchelp/v7r0m0/index.jsp?topic=/com.ibm.commerce.developer.doc/refs/rosshopflowdiag.htm        |
| <ul> <li>Order star</li> </ul> | tus transition flow diagram  |
| http://publib.bould            | der.ibm.com/infocenter/wchelp/v7r0m0/index.jsp?topic=/com.ibm.commerce.developer.doc/refs/rosordflowdiagcont.htm     |
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| <ul> <li>Overview</li> </ul>   | of inventory sharing for Extended Sites stores (non-ATP)   |
| http://publib.bould            | der.ibm.com/infocenter/wchelp/v7r0m0/index.jsp?topic=/com.ibm.commerce.data.doc/refs/rdainvsharextsitenonatp.htm     |
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| http://publib.bould            | der.ibm.com/infocenter/wchelp/v7r0m0/index.jsp?topic=/com.ibm.commerce.data.doc/tasks/tdataxsharextsitemodelcont.htm |
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| http://publib.bould            | der.ibm.com/infocenter/wchelp/v7r0m0/index.jsp?topic=/com.ibm.commerce.developer.doc/concepts/ctxvatcont.htm         |
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This slide contains some useful references for further reading.



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