

Exercise 10-1: Work with Repricing

Scenario

Infiwave needs the ability to reprice products based on competition, supply and demand, market value and consumer interest. Eliza realizes the importance of staying competitive with the competition and informs management about the automatic repricing feature. Eliza knows that all Platinum customers are to receive special pricing on the Blast! Pro Internet product but learns that Acme is no longer a Platinum customer. Eliza needs to reprice the Blast! Pro Internet asset on Acme's account.

Goals

- Describe how to use repricing to reprice order line items and assets
- Explain how repricing adheres to context rules and effectivity dates on price list entries
- Demonstrate how to invoke the repricing service

Tasks

1. Activate the RepricingElementServiceImplementation
2. Reprise order line items to reflect a price effectivity change
3. Reprice an asset to reflect a context rule condition for an account

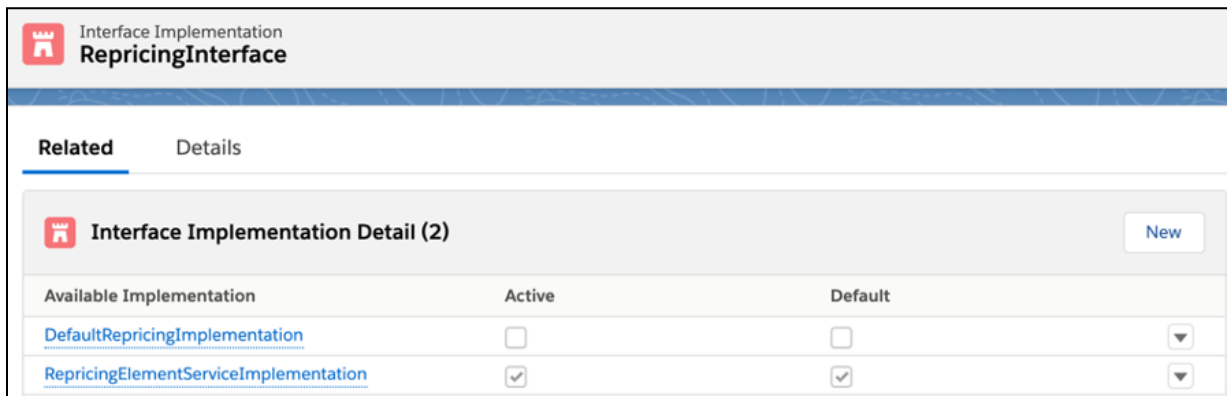
Time: 20 mins

Task 1: Activate the RepricingElementServiceImplementation

To enable the repricing service, first you must activate the RepricingElementServiceImplementation.

Instructions

1. Use the App Launcher to locate and launch **Interface Implementations**.
2. Change the **List Views** to **All**.
3. Locate and select the **RepricingInterface** from the list.
4. From the menu for **RepricingElementServiceImplementation**, select **Edit**.
5. Check the **Active** and **Default** checkboxes and click **Save**.



Interface Implementation Detail (2)			New
Available Implementation	Active	Default	
DefaultRepricingImplementation	<input type="checkbox"/>	<input type="checkbox"/>	▼
RepricingElementServiceImplementation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	▼

Task 2: Reprice order line items to reflect a price effectivity change

Due to changes in market conditions, the marketing team decided yesterday to lower the price of the 4G LTE Data Plan product starting today, and they want this new price to be available to any orders that are still pending and have not been submitted for fulfilment. To accomplish this, create a new price list entry and end-date the existing price list entry. Once the price list entries are created and updated, run the repricing service in order to reflect the new pricing on existing orders to ensure customers can take advantage of this new pricing.

Product	Price List Entry	Effectivity Start Date	Effectivity End Date
4G LTE Data Plan	\$34.99 RM	Jan 1, 2018	[Yesterday, 11:59 pm]
4G LTE Data Plan	\$24.99 RM	[Today, 12 am]	

What happens to customer orders?

Product	Order Date	Price in cart
4G LTE Data Plan	[Today]	\$34.99 \$24.99



What happens for that one minute before midnight in this scenario when no price is available? Then the product won't be available for sale. However, at midnight it will reappear with the new price.

Instructions

1. Adjust the end date of the existing price and create a new price.
 - a. Navigate to the **Vlocity Product Designer**.
 - b. From the Product Designer navigation menu, select **Products**.
 - c. Locate and select the **4G LTE Data Plan**.

- d. In the product PRICING workspace, review the prices currently assigned to the product. Notice there is a B2C Price List charge of \$34.99 which started on 14th November, 2022 and has no end date.
- e. You want to end-date this price, so click the edit icon on the price entry.
- f. In the **EDIT PRICE** pane, select the **End Date** field and select **yesterday's date**, and **11:59 pm** as the time before clicking **Done**.
- g. Click **Done** in the EDIT PRICE pane to save your changes. Notice in the PRICES list, the \$34.99 price now shows availability from 14/11/22-[Yesterday].
- h. Click **New Price** in the **Prices** section to create a new price list entry.
- i. Enter the following data for the **Price List Entry** fields:

Field	Value
Price List	B2C Price List
Display Name	\$24 . 99
Virtual Price	[leave unchecked]
Amount	24 . 99
Currency	USD
Recurring Frequency	Monthly
Start Date	[Today, 12am]
End Date	[leave blank]

- j. Click **Done** to save your changes. Notice your new price shows in the PRICES list, with availability starting on tomorrow's date. Your pricing should now look something like this.

PRICES

☒ Show Active Only

New Price

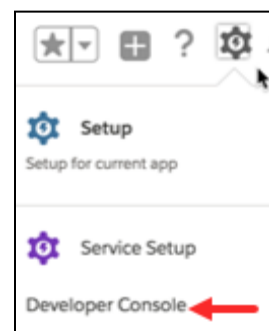
ACTIVE	DISPLAY NAME	PRICE LIST	AMOUNT	AVAILABILITY	RULES	ACTIONS
<input checked="" type="radio"/>	\$24.99	B2C Price List	24.99 USD Monthly	starting on 10/21/22	Drop Rules Here	
<input checked="" type="radio"/>	\$34.99	B2C Price List	34.99 USD Monthly	10/1/17 - 10/20/22	Drop Rules Here	

Showing all 2 entries

2. Let's check the 4G LTE Data Plan price on an existing order.
 - a. From the App Launcher, locate **Industries CPQ**. Right click on the app and open **Industries CPQ** in a new tab.
 - b. From the Industries CPQ navigation menu select **Orders**.
 - c. Change the **List Views** to **All Orders**.
 - d. Locate and select Noah White's **Adv Pricing Data Plan Order**. In the **cart** workspace of the order, notice that it contains the 4G LTE Data Plan, priced at \$34.99 per month.
 - e. From the URL, copy the **OrderId** from after the Order/ and before /view and paste it to a text editor. You will need this Id for the Apex code when repricing the order.

<https://na49.lightning.force.com/lightning/r/Order/8015A0000030vYvQAI/view>

3. Now let's run the repricing service.
 - a. Leave Noah White's order open, and select the **Vlocity Product Designer** tab you were working on earlier.
 - b. From Salesforce **Setup**, select **Developer Console**.
 - c. From the **Developer Console**, click **Debug > Open Execute Anonymous Window**.



- d. The following Apex code will be used to reprice the Adv Pricing Data Plan Order. Copy this code and paste it in the **Enter Apex Code** box from the **Developer Console**.

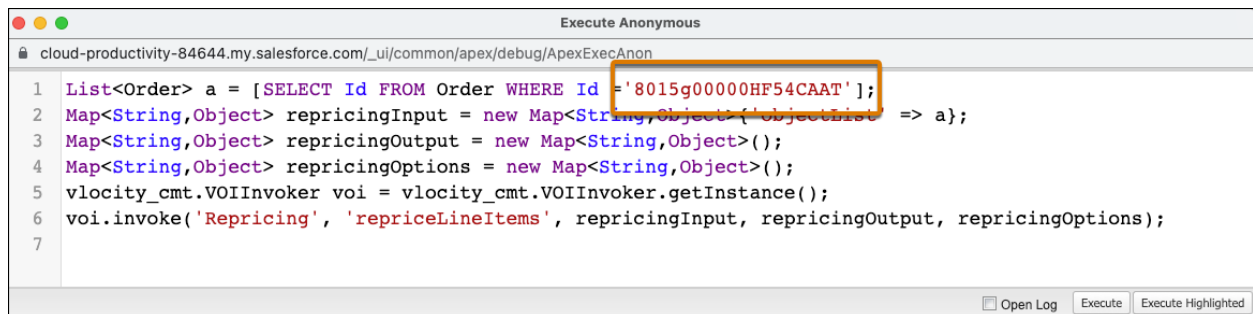
Apex Code

```
List<Order> a = [SELECT Id FROM Order WHERE Id  
='8015A0000030vYvQAI'];  
Map<String,Object> repricingInput = new  
Map<String,Object>{'objectList' => a};  
Map<String,Object> repricingOutput = new Map<String,Object>();  
Map<String,Object> repricingOptions = new Map<String,Object>();  
vlocity_cmt.VOIInvoker voi = vlocity_cmt.VOIInvoker.getInstance();  
voi.invoke('Repricing', 'repriceLineItems', repricingInput,  
repricingOutput, repricingOptions);
```

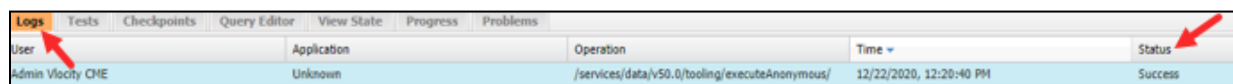


You'll replace the OrderId in the Apex code with the OrderId from your training playground. The OrderId used in this example will not be the same in your environment.

- e. Copy the OrderId from your text editor and paste it over the OrderId in the Apex code in Line 1.



- f. Select the code and click **Execute Highlighted**.
g. Verify the status is **Success** in the logs by clicking the Logs option in the bottom window.




-
4. Review the repriced order.
 - a. Navigate back to the tab where Noah White's **Adv Pricing Data Plan Order** is open.
 - b. The price for the 4G LTE Data Plan is \$34.99. Refresh the browser page.
 - c. Notice the **Recurring Charge** is now **\$24.99** from the new price list entry.

Task 3: Reprice an asset to reflect a context rule condition for an account

Customers' situations change and it may be that special deals they were entitled to in the past no longer apply. Repricing can update assets to reflect these changes. In this exercise you're going to reprice Acme's Blast! Pro Internet assets based on the fact that Acme is no longer a Platinum customer, so is therefore not entitled to the reduced prices available to Platinum accounts.

Instructions

1. Review Blast! Pro Internet price list entries.
 - a. Navigate to the **Vlocity Product Designer**.
 - b. From the Product Designer navigation menu, select **Products**.
 - c. In the **All Products** list view, locate and select **Blast! Pro Internet**.
 - d. In the **PRICING** workspace of the product, notice that the price for the B2B price list has a Platinum Accounts Rule Set attached. This gives Platinum account customers a reduced price on the product.


Product
Blast! Pro Internet

Product Code

Version Label

Specification Type

Selling Start Date

Status

Object Type

C-ISP-003

V1

Product

4/1/2018, 12:00 AM

Active

[Internet Service Product Spec](#)

DETAILS

PRICING

STRUCTURE

ATTACHMENTS

ATTRIBUTE RULES

CONTEXT RULES

FULFILL

PRICES

Search Price List Entries

☒ Show Active Only



New Price

ACTIVE	DISPLAY NAME	PRICE LIST	AMOUNT	AVAILABILITY ↓	RULES	ACTIONS
<input checked="" type="radio"/>	\$20	B2B Price List	20 USD Monthly	starting on 9/19/18	Platinum Accounts Rule Set	
<input checked="" type="radio"/>	\$25	B2B Price List	25 USD Monthly	starting on 9/17/18	Drop Rules Here	


Showing all 2 entries

2. Review Acme's Platinum SLA account status.
 - a. Duplicate the Vlocity Product Designer tab, as you'll be coming back to it later.
 - b. From the **App Launcher**, locate and open **Accounts**.
 - c. From the **All Accounts** list view, locate and select **Acme**.
 - d. Click on the **Details** account workspace.
 - e. Notice the **SLA** is set to **Platinum**.
3. Review the Blast! Pro Internet asset on Acme's account that was discounted based on the account's SLA status.
 - a. Select the **Asset Viewer** workspace on the Acme account.
 - b. Notice the **Blast! Pro Internet** asset **Recurring Total** for the asset is \$20 according to the context rule for platinum accounts.

4. Change Acme's SLA status to Gold.
 - a. Select the **Details** workspace on the Acme account.
 - b. Click on the **Edit** icon to change the **SLA** to **Gold**.
 - c. Click **Save**.

Related	Details	Asset Viewer	News
Account Name	Acme		Phone 212 154-6450
Account Owner	 Devi Jacob		Fax (212) 154-6452
Parent Account			Website AcmeIsTheBest.com
Industry	Other		Contact  Leanne Tomlin
Type	Customer		Status Active
Annual Revenue	\$22,000,000		Account Record Type Service
SLA	Gold		SLA Serial Number P271545

- d. From the URL, copy the Account Id from after the Account/ and before /view and paste it to a text editor. You will need this Id for the Apex code for repricing accounts.

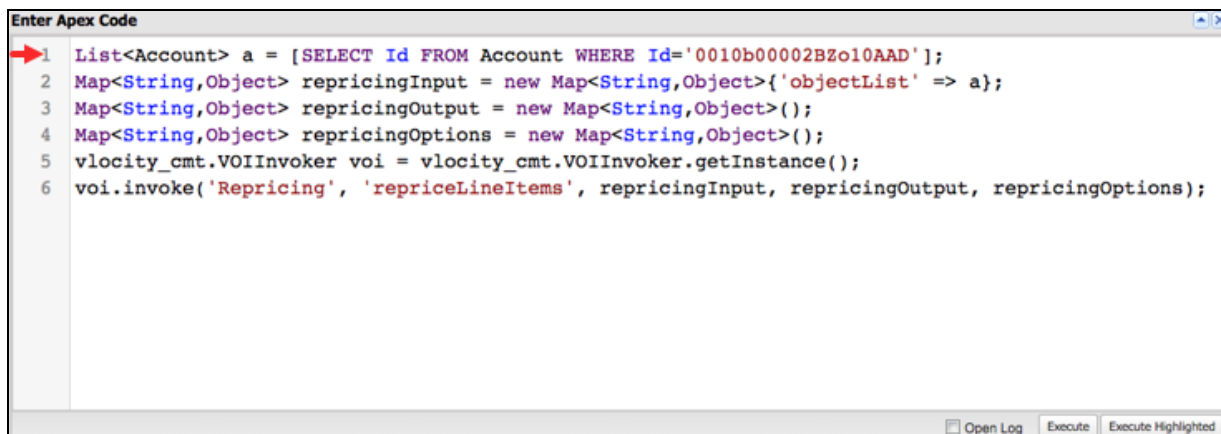
 Secure | <https://na57.lightning.force.com/lightning/r/Account/0010b00002BZo10AAD/view>

5. Run the repricing service on assets.
 - a. Navigate to the **Setup** icon and select **Developer Console**.
 - b. From the **Developer Console**, click **Debug > Open Execute Anonymous Window**.
 - c. The following Apex code will be used to reprice the Blast! Pro Internet asset on Acme's account. Clear any existing code from the window, then copy the below Apex code and paste it in the **Enter Apex Code** box from the **Developer Console**.

Apex Code

```
List<Account> a = [SELECT Id FROM Account WHERE  
Id='0011I00000DBYUK'];  
Map<String,Object> repricingInput = new  
Map<String,Object>{'objectList' => a};  
Map<String,Object> repricingOutput = new Map<String,Object>();  
Map<String,Object> repricingOptions = new Map<String,Object>();  
vlocity_cmt.VOIInvoker voi = vlocity_cmt.VOIInvoker.getInstance();  
voi.invoke('Repricing', 'repriceLineItems', repricingInput,  
repricingOutput, repricingOptions);
```

- d. In line 1, replace the Account Id currently in the code with the Account Id copied from Acme's account.



- e. Select the code and click **Execute Highlighted**.
 - f. Verify the status is **Success** in the logs.

-
6. Review the repriced asset.
 - a. Navigate back to the tab that has the Acme account open.
 - b. Refresh the browser page then select the **Asset Viewer** workspace on the account.
 - c. Notice the **Recurring Charge** for the Blast! Pro Internet asset is now \$25 according to the price list entry for all customers other than Platinum.



Yay! All done!