How to Upload the ARMM Trader Configuration and Enable Automated Purchases

Background

The ARMM trader can be used to automatically purchase offsets listed for sale as long as the listed offsets fit within defined criteria. At this time, Project Category and Price are the only criteria that can be defined.

Price cap is what the ARMM Trader uses to determine the max price at which an offset will be purchased, if that price falls within the ARMM's recommended price range.

Example 1: The price cap is set at $50.00 and the ARMM suggests a minimum price of $65.98 and maximum price of $67.56 for a relevant offset. Although an offset listed at $66.00 is within the ARMM suggested price range, it will not be purchased because the list price exceeds the price cap value.

Example 2: The price cap is set to $70.00 and the ARMM suggests a minimum price of $65.98 and maximum price of $67.56 for a relevant offset. An offset listed at $68.00 would not be purchased because it exceeds the ARMM recommended maximum price, even though the price is less than the set price cap. This is in place to ensure an organization doesn't overpay for offsets in a changing market.

The Project Category tells the trader what category of offsets to purchase. Project Category options are currently RENEW_ENERGY (Renewable Energy), WASTE_MGMT (Waste Management), FOREST_CONSERV (Forestry and Conservation) and COMM_ENRGY_EFF (Community Based Energy Efficiency).

Instructions

1. Use the TraderRulesDemo.xlsx template, contained in the tolam-demo repository, which takes the form shown. Save the file in a location such that it can be picked up when the upload step is executed

RuleSet	com.tolamearth.armm.trader.rules.dto		
Import	com.tolamearth.armm.trader.rules.dto.MarketplaceStateDto		
RuleTable Trader decision table			
NAME	**CONDITION**	**CONDITION**	**ACTION**
	$state:MarketplaceStateDto		
	$state.getProjectCategory() == $param	$state.getPrice() < $param	$state.setExecutePurchase($param);
NAME	Project Category	Price	Purchase
Price is ok	"RENEW_ENERGY"	5000	TRUE

2. Upload the ARMM trader run the following curl command:

```
curl -i --location --request POST \
'http://<arrm_url>/armm/v1/trader/rules/upload?ruleName=test' \
--form 'file=@"<location_of_file>/TraderRulesDemo_mvp.xlsx"'
```

*note that the included docker example has the ARMM trader listening on port 8085

3. Turn the trader on with this curl command:

```
curl -o - -i --location --request POST \
'http://<arrm_url>/armm/v1/trader/buyOn'
```

4. On the Exchange log, there is an account that has offsets that match the Project Category from the table above

5. List an offset at a price that is lower than the ARMM recommended max price, as well as below the Price (cap) from the table above

6. After an offset is listed, it should be purchased by the ARMM trader account