

Model.cto:

```
/**
 * My commodity trading network
 */
namespace org.acme.mynetwork
asset Commodity identified by tradingSymbol {
    o String tradingSymbol
    o String description
    o String mainExchange
    o Double quantity
    --> Trader owner
}
participant Trader identified by tradeId {
    o String tradeId
    o String firstName
    o String lastName
}
transaction Trade {
    --> Commodity commodity
    --> Trader newOwner
}
```

Script.js

```
/**
 * Track the trade of a commodity from one trader to another
 * @param {org.acme.mynetwork.Trade} trade - the trade to be processed
 * @transaction
 */
function tradeCommodity(trade) {
    trade.commodity.owner = trade.newOwner;
    return getAssetRegistry('org.acme.mynetwork.Commodity')
        .then(function (assetRegistry) {
```

```
        return assetRegistry.update(trade.commodity);
    });
}
```

NEW Participants:

```
{
  "$class": "org.acme.mynetwork.Trader",
  "tradeId": "TRADER1",
  "firstName": "William",
  "lastName": "Shakespeare"
}
```

```
{
  "$class": "org.acme.mynetwork.Trader",
  "tradeId": "TRADER2",
  "firstName": "Charles",
  "lastName": "Dickens"
}
```

New Commodity

```
{
  "$class": "org.acme.mynetwork.Commodity",
  "tradingSymbol": "LIT",
  "description": "Literature",
  "mainExchange": "Oxford",
  "quantity": 72.297,
  "owner": "resource:org.acme.mynetwork.Trader#TRADER1"
}
```

TRADE

```
{  
  "$class": "org.acme.mynetwork.Trade",  
  "commodity": "resource:org.acme.mynetwork.Commodity#LIT",  
  "newOwner": "resource:org.acme.mynetwork.Trader#TRADER2"  
}
```