



## Oracle Blockchain Service (BCS) API Integration for NAFDAC

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To integrate with the Oracle Blockchain service deployed for Nigerian Customs, the following RESTful API's are documented below.  
On all calls, please set the "Content-Type" to "application/json".

Please ensure the following fields below (including JSON Payload) are not hard coded into your application

```
"channel": "bankorderer",  
"chaincode": "licencematerials",
```

The "MaterialId" parameter will be provided by Customs. This is a unique ID representing a specific raw material.

#### Method: readLicenceInformation

Function	Description
readLicenceInformation	Gets license information. Validate authenticity of record. <b>Expected Fields</b> <b>FactoryNumber</b> string <b>ExpiryDate</b> int (UNIX Time)
Resource URL: <a href="http://localhost:3100/bcsgw/rest/v1/transaction/query">http://localhost:3100/bcsgw/rest/v1/transaction/query</a>	
args[factoryNumber, expiryDate]	
<b>JSON payload</b> { "channel": "bankorderer", "chaincode": "licencematerials", "method": "readLicenceInformation", "args": ["factory1234", "1510528297"], "chaincodeVer": "v1" }	

#### Method: readProductRegistry

Function	Description
readProductRegistry	Gets <b>current</b> quantity of raw material content in a given product. <b>Expected Fields</b> <b>RCNumber</b> int <b>ProductName</b> string <b>MaterialId</b> string
Resource URL: <a href="http://localhost:3100/bcsgw/rest/v1/transaction/query">http://localhost:3100/bcsgw/rest/v1/transaction/query</a>	
args[rcNumber, productName, materialId]	
<b>JSON payload</b> {	

```

"channel": "bankorderer",
"chaincode": "licencenmaterials",
"method": "readProductRegistry",
"args": ["1234", "Marlboro", "material2634"],
"chaincodeVer": "v1"
}

```

#### Method: `getHistoryForProductRegistry`

Function	Description
<code>getHistoryForProductRegistry</code>	Gets <b>history</b> of quantity updates of raw material content in given a product. <b>Expected Fields</b> <b>RCNumber</b> int <b>ProductName</b> string <b>MaterialId</b> string
Resource URL: <a href="http://localhost:3100/bcsgw/rest/v1/transaction/query">http://localhost:3100/bcsgw/rest/v1/transaction/query</a>	
args[rcNumber, productName, materialId]	
<b>JSON Payload</b> <pre> {   "channel": "bankorderer",   "chaincode": "licencenmaterials",   "method": "getHistoryForProductRegistry",   "args": ["1234", "Marlboro", "material2634"],   "chaincodeVer": "v1" } </pre>	

#### Method: `readDefectiveProduct`

Function	Description
<code>readDefectiveProduct</code>	Gets <b>current</b> quantity of specified raw material assigned to product in defective product register. <b>Expected Fields</b> <b>RCNumber</b> int <b>ProductName</b> string <b>MaterialId</b> string
Resource URL: <a href="http://localhost:3100/bcsgw/rest/v1/transaction/query">http://localhost:3100/bcsgw/rest/v1/transaction/query</a>	
args[rcNumber, productName, productName]	
<b>JSON Payload</b> <pre> {   "channel": "bankorderer",   "chaincode": "licencenmaterials",   "method": "readDefectiveProduct",   "args": ["1234", "Marlboro", "material2634"],   "chaincodeVer": "v1" } </pre>	

#### Method: `getHistoryForDefectiveProduct`

Function	Description
<code>getHistoryForDefectiveProduct</code>	Gets <b>history</b> of quantity updates of specified raw material assigned to product in defective product register. <b>Expected Fields</b> <b>RCNumber</b> int <b>ProductName</b> string <b>MaterialId</b> string
Resource URL: <a href="http://localhost:3100/bcsgw/rest/v1/transaction/query">http://localhost:3100/bcsgw/rest/v1/transaction/query</a>	
args[rcNumber, productName, materialId]	
<b>JSON Payload</b> <pre> {   "channel": "bankorderer",   "chaincode": "licencenmaterials", </pre>	

```
"method": "getHistoryForDefectiveProduct",  
"args": ["1234", "Marlboro", "material2634"],  
"chaincodeVer": "v1"  
}
```