

Oracle Blockchain Service (BCS) API Integration for BAT

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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

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

Method: updateProductRegistry

Function	Description	
updateProductRegistry	Adds raw material content for a given product.	
	Expected Fields	
	RCNumber int	
	ProductName string	
	MaterialId string	
	Quantity int	
	Reason string	
Resource URL: http://localhost:3100/bcsgw/rest/v1/transaction/invocation		
args[rcNumber, productName, materialld, quantity, reason]		
JSON payload		
"channel":"bankorderer",		
"chaincode":"licencenmaterials",		
"method":"updateProductRegistry",		
"args":["1234", "Marlboro", "material2634", "-20", "batch 1001"],		
"chaincodeVer":"v1"		
}		

Method: readProductRegistry

Function	Description
readProductRegistry	Gets current quantity of raw material content in a given product. Expected Fields RCNumber int ProductName string

[&]quot;channel": "bankorderer",

[&]quot;chaincode": "licencenmaterials",

```
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]

JSON payload

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

Method: getHistoryForProductRegistry

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

Method: addDefectiveProduct

Function	Description
addDefectiveProduct	Adds raw material and its quantity to defective product register.
	Expected Fields
	CompanyName string
	RCNumber int
	TIN int
	ProductName string
	MaterialId string
	Quantity int
	Reason string
Resource URL: http://localhost:3100/bcsgw/rest/v1/transaction/invocation	
args[companyName, rcNumber, tin, productName, materialld, quantity, reason]	
JSON Payload	
{	
"channel":"bankorderer",	
"chaincode":"licencenmaterials",	
"method":"addDefectiveProduct",	
"args":["British American Tobacco","1234", "10101", "Marlboro", "material2634", "2000", "order 6172362"],	
"chaincodeVer":"v1"	
}	

Method: updateDefectiveProduct

Function	Description
addDefectiveProduct	Updates raw material quantity to defective product register. Expected Fields RCNumber int ProductName string

```
Materialld string
Quantity int
Reason string

Resource URL: http://localhost:3100/bcsgw/rest/v1/transaction/invocation

args[rcNumber, tin, productName, materialld, quantity, reason]

JSON Payload
{
    "channel":"bankorderer",
    "chaincode":"licencenmaterials",
    "method":"updateDefectiveProduct",
    "args":["1234", "Marlboro", "material2634", "-100", "batch 1001"],
    "chaincodeVer":"v1"
}
```

Method: readDefectiveProduct

Function	Description
readDefectiveProduct	Gets current quantity of specified raw material assigned to product in defective product
	register.
	Expected Fields
	RCNumber int
	ProductName string
	MaterialId string
Resource URL: http://localhost:3100/	/bcsgw/rest/v1/transaction/query
args[rcNumber, productName, produ	ictName]
JSON Payload	
{	
"channel":"bankorderer",	
"chaincode":"licencenmaterials",	
"method":"readDefectiveProduct",	
"args":["1234", "Marlboro", "materi	al2634"1.
"chaincodeVer":"v1"	•
}	

Method: getHistoryForDefectiveProduct

Function	Description
getHistoryForDefectiveProduct	Gets history of quantity updates of specified raw material assigned to product in defective product register. Expected Fields RCNumber int ProductName string Materialld string
Resource URL: http://localhost:3100/bcsgw/re	est/v1/transaction/query
args[rcNumber, productName, materialId]	
JSON Payload { "channel":"bankorderer", "chaincode":"licencenmaterials", "method":"getHistoryForDefectiveProduct", "args":["1234", "Marlboro", "material2634"], "chaincodeVer":"v1" }	