

OMNI Accounts REST API



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Omni Accounts REST API

Introduction

The purpose of this document is to expose the service requests, actions and format types available in this version of the Omni Accounts REST web service API.

Each of these service request types, actions and formats will be explained under their relevant sections.

Intended audiences are developers who want to build applications or services that interface with the Omni Accounts Suite using the Omni Accounts REST API.

Supported REST Requests

Omni Accounts REST API currently supports the Get, Post and Put web service requests. All web service requests are communicated using the http protocol.

Supported Formats

Omni Accounts REST API currently supports content type 'application/json'.

Any dates are strings in the format "YYYY-MM-DD"

URI's will generally be in the format:

```
http://<Host>:<Port>/<Method>/<Identifier>?UserName=<User  
Name>&Password=<Password>&CompanyName=<Company Name>
```

More information on the method and the identifier can be found below in the information specifically for each method.

The company name must match the company name that you see in the drop down when logging in. It is case sensitive.

The User Name used must have "Remote Access" permission. This is configured by editing their user role in the Omni Control Centre.

Prerequisites

Before attempting any communication between 3rd party applications or services and the Omni Accounts Suite the Omni Accounts REST web service needs to be configured, running and tested.

Please refer to *Setup and Configure Omni REST Service* document for instructions on how to setup and test the Omni Accounts REST service.

Color Code Legend

The following table indicates the color codes used to indicate required, optional and read only JSON content when making POST or PUT requests to the Omni Accounts REST API. Optional params for the calling URI are also indicated in blue under the relevant sections.

Color Code Legend	
Color	Description

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Red	Required (Fails if missing from JSON content)
Blue	Optional (Default used if not supplied)
Green	Read Only (Ignored if passed in JSON content)
Orange	May be Required (Depends on company setup options selected in Omni Accounts)

More detailed information regarding the field definitions (ie. Field sizes, valid input values, etc.) is available in the Omni help file.

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GET Requests

Explains the purpose and gives examples of the supported GET requests for the Omni Accounts REST API. The GET responses can be used in the PUT or POST requests to update or insert data for all the supported POST and PUT actions. You should however only return the bare minimum of what your system needs to update.

The read only and optional fields as indicated in the color legend are shown in the GET requests in this section.

If any of the calls fail an exception will be raised. The error message will contain a user friendly message (details below).

PUT and POST Requests

Explains the purpose and gives examples of the supported PUT requests for the Omni Accounts REST API. The PUT REST API calls are given with the minimum required fields to make a successful PUT request to the Omni Accounts REST API. For optional fields and read only fields please consult the color code legend and the GET requests that return all fields.

A PUT request will make an attempt to update an existing item, if the specified item is not found the PUT request will attempt to insert a new item to OMNI Accounts. If any of the calls fail an exception will be raised.

A POST request will make an attempt to post a new item to OMNI Accounts. If any of the calls fail an exception will be raised. Unlike PUT, if the primary key has been specified by your program, and it is already on file, you will get an error that the item is already on file.

Any problems will return a user friendly message (details below).

How To

The following sections of this document will cover the various REST requests types and associated actions that can be called with version 7.15.62.3332 of the Omni Accounts REST Web Service API.

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- **GET Customer**

- Purpose:

Returns a customer account details.

- URI Format:

http://<Host>:<Port>/Customer/<Account Code>/<Branch Code>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>

- Notes:

Customer Accounts are keyed on Account Code (alpha-numeric 8) *and* Branch Code (alpha-numeric 4). Customer Branches are an optional extra. If the branch code is emitted, "HO" will be used.

When creating a customer, you always need a main HO branch.

There are no individual balances on branches, only on the main HO account. Invoices are for specific branches, receipts are always posted to the customer overall, so additional branches should only be used where head office is responsible for payment.

For more details on the customer field definitions, please refer to the Omni help.

- Response:

Content Type = "application/json"

Example JSON Response:

```
{ "customeraccount" : { "account_code" : "CASH", "branch_code" : "HO", "customer_name" : "Cash Sales", "postal_address_1" : "", "postal_address_2" : "", "postal_address_3" : "", "postal_address_4" : "", "postal_address_5" : "", "post_code" : "", "physical_address_1" : "", "physical_address_2" : "", "physical_address_3" : "", "physical_address_4" : "", "physical_address_5" : "", "transaction_analysis_1" : "", "transaction_analysis_2" : "", "transaction_analysis_3" : "", "transaction_analysis_4" : "", "extra_details_1" : "NA", "extra_details_2" : "", "extra_details_3" : "", "extra_details_4" : "", "extra_details_5" : "", "extra_details_6" : "", "extra_details_7" : "", "extra_details_8" : "", "vat_registration_number" : "", "vat_code" : "1", "currency_code" : "ZAR", "credit_terms_code" : "000", "settlement_code" : "000", "interest_code" : "000", "customer_category" : "RET", "region" : "Not Specified", "area_code" : "000", "rep_code" : "HS", "overall_discount_code" : "000", "selling_price_index" : 1, "no_balances" : "N", "statement_required" : "Y", "statement_method" : "ANY", "order_no_required" : "N", "back_orders" : "DEFAULT", "popup_memo" : "N", "credit_limit" : 0, "statement_type" : "OI", "on_hold" : "N", "date_opened" : "2010-10-09", "created_by" : "Admin", "debtors_control" : "500100", "revenue_account" : "100100", "vat_type" : "E", "stock_discount_level" : 0, "memo" : "", "bank_name" : "", "bank_branch_code" : "", "bank_branch_name" : "", "bank_account_no" : "", "bacs_reference" : ""
```

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```
"bank_account_holder" : "", "active" : "Y", "id" : 1 }}
```

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- **GET Stock**
- Purpose:
Returns a Stock Items details.
- URI Format:
`http://<Host>:<Port>/Stock/<Stock Code>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>`
- Response
Content Type = "application/json"

Example JSON Response:

```
{ "stockitem" : { "stock_code" : "BRS0003", "stock_description" : "SMALL PAINT BRUSHes", "stock_type" : "PRODUCT", "product_group" : "NELE", "stock_category" : "TOL", "extra_details_1" : "a", "extra_details_2" : "b", "extra_details_3" : "c", "extra_details_4" : "d", "extra_details_5" : "e", "extra_details_6" : "f", "extra_details_7" : "g", "extra_details_8" : "h", "measure" : "UNT", "bar_code" : "bbbccc", "weight" : 15, "volume" : 6, "pack" : 12, "back_orders_on_sales_orders" : "DEFAULT", "extra_cost_apportioning_method" : "NONE", "valuation_method" : "AVERAGE", "cost_price" : 8.38, "cost_price_per" : 1, "selling_price_1" : 14, "selling_price_1_per" : 1, "selling_price_1_currency" : "ZAR", "selling_price_2" : 25, "selling_price_2_per" : 2, "selling_price_2_currency" : "ZAR", "selling_price_3" : 1, "selling_price_3_per" : 1, "selling_price_3_currency" : "USD", "vat_code" : "1", "selling_prices_are_inclusive" : 1, "use_auto_selling_price_markup" : "N", "no_discounts" : "N", "discount_1" : 1, "discount_2" : 2, "discount_3" : 0, "discount_4" : 0, "discount_5" : 0, "uses_tracking_no_1" : "N", "uses_tracking_no_2" : "N", "uses_tracking_no_3" : "Y", "uses_tracking_no_4" : "Y", "warranty_period_in_days" : 0, "shelf_life_in_days" : 30, "popup_memo" : "Y", "active" : true, "id" : 7 } }
```


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- **PUT Stock**

- Purpose:

Updates a Stock Item.

- URI Format:

http://<Host>:<Port>/Stock/<Stock Code>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>

- Request:

Content Type = "application/json"

Example JSON:

```
{ "stockitem" : { "stock_code" : "BRS0003", "stock_description" : "SMALL PAINT BRUSHes", "stock_type" : "Product", "product_group" : "NELE", "stock_category" : "TOL", "extra_details_1" : "a", "extra_details_2" : "b", "extra_details_3" : "c", "extra_details_4" : "d", "extra_details_5" : "e", "extra_details_6" : "f", "extra_details_7" : "g", "extra_details_8" : "h", "measure" : "UNT", "bar_code" : "bbbccc", "weight" : 15, "volume" : 6, "pack" : 12, "back_orders_on_sales_orders" : "Default", "extra_cost_apportioning_method" : "None", "valuation_method" : "Moving Average", "cost_price" : 8.38, "cost_price_per" : 1, "selling_price_1" : 14, "selling_price_1_per" : 1, "selling_price_1_currency" : "ZAR", "selling_price_2" : 25, "selling_price_2_per" : 2, "selling_price_2_currency" : "ZAR", "selling_price_3" : 1, "selling_price_3_per" : 1, "selling_price_3_currency" : "USD", "vat_code" : "1", "selling_prices_are_inclusive" : true, "use_auto_selling_price_markup" : false, "no_discounts" : false, "discount_1" : 1, "discount_2" : 2, "discount_3" : 0, "discount_4" : 0, "discount_5" : 0, "uses_tracking_no_1" : false, "uses_tracking_no_2" : false, "uses_tracking_no_3" : false, "uses_tracking_no_4" : false, "warranty_period_in_days" : 0, "shelf_life_in_days" : 30, "popup_memo" : true, "active" : true } }
```

Note:

Any fields not passed into the JSON object will not be updated. Ideally you should only be passing in fields that you would like to change.

The stock code is passed in the URI, and has to be specified.

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- **POST Stock**

- Purpose:

Creates a Stock Item.

- URI Format:

http://<Host>:<Port>/Sales Order/<Stock Code>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>

- Request:

Content Type = "application/json"

Example JSON Content to be passed to the URI: *(Indicates minimum required fields).*

```
{ "stockitem" : { "stock_description" : "Stock Item Description 01" } }
```

This is the bare minimum, so see the full list of available field, please see the PUT section above. Fields left out will be picked up the Omni defaults, so only pass in the fields that your system needs to control.

Note:

If no stock code is passed in the URI then an error message will be returned indicating that you need to provide a stock code.

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- **GET Sales Order**

- Purpose:

Returns a Sales Order header and line details.

- URI Format:

http://<Host>:<Port>/Sales Order/<Sales Order Number>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>

- Response

Content Type = "application/json"

Example JSON Response:

```
{ "order": { "source_type": "None", "source_reference": "", "customer_account_code": "MA01", "customer_branch_code": "HO", "customer_name": "Makoshi Supplies", "warehouse_code": "1", "job_no": "", "customer_order_no": "JB8976", "delivery_details": "", "rep_code": "HS", "area_code": "CEN", "vat_registration_no": "", "postal_address_1": "56 Cato Manor Road", "postal_address_2": "Cato Manor", "postal_address_3": "", "postal_address_4": "", "postal_address_5": "", "post_code": "3596", "cell_number": "", "picker": "", "driver": "", "analysis_4": "", "order_lines": [ { "id": 1, "reference": "000034", "line_no": 1, "sequence_no": 1, "line_type": "S", "stock_code": "EXT0002", "description": "5 METRE EXTENSION CORD", "warehouse": "1", "ordered": 5, "measure": "EA", "delivered": 0, "invoiced": 0, "credited": 0, "to_invoice": 0, "to_deliver": 5, "to_credit": 0, "back_orders": "KEEP", "cost_price": 56, "cost_price_per": 1, "unit_cost_price": 56, "selling_price": 84, "selling_price_per": 1, "discount": 0, "vat_code": "1", "vat_rate": 14, "revenue_acc_code": "100120", "sub_job_category_code": "", "deal_id": -1, "no_discount": null, "cell_number": "", "picker": "", "driver": "", "analysis_4": "", "due": "2014-04-06", "reference_no": "000034", "source_reference_no": "", "source_type": "None", "job_no": "", "measure_description": "Each", "ext_price": 420, "ext_price_(excl)": 420, "ext_price_(incl)": 478.8, "vat_value": 58.8, "local_vat_value": 58.8, "tax_type": "Normal - Local", "unit_price": 84, "ext_cost_price": 280, "gross_profit": 140, "gp_%": 33.3333, "markup_%": 50, "quantity": 5, "unit_weight": 0, "unit_volume": 0, "ext_weight": 0, "ext_volume": 0, "stock_level": 100, "min_level": 0, "qty_short": 0, "stock_type": "Product", "pack": 1, "bin_location_code": "A01", "bin_location_description": "Aisle 1", "product_group_code": "OTH1", "product_group_description": "Elec - Other", "stock_category_code": "ELEC", "stock_category_description": "Electrical", "revenue_acc_description": "Sales-Electrical", "sub_job_category_description": "None", "stock_description": "5 METRE EXTENSION CORD", "warehouse_description": "Main Warehouse", "bar_code": "", "pref_supplier": "", "extra_info_2": "", "extra_info_3": "", "extra_info_4": "", "extra_info_5": "", "extra_info_6": "", "extra_info_7": "", "extra_info_8": "", "use_serial_no": false, "use_batch_no": false, "use_tracking_no_3": false, "use_tracking_no_4": false, "warranty_period": 0, "deal_narrative": "Selling Price: 1" } ] }
```

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- **PUT/POST Sales Order**

- Purpose:

PUT Creates or updates an open sales order with the items specified in the JSON object.

POST Inserts a new Sales Order with the items specified in the JSON object.

- URI Format:

http://<Host>:<Port>/Sales Order/<Sales Order Number>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>

- Request:

Content Type = "application/json"

Example JSON Content to be passed to the URI: *(Indicates minimum required fields)*.

```
{  
  "order": {  
    "customer_account_code": "MA01",  
    "order_lines": [  
      {  
        "stock_code": "EXT0002",  
        "quantity": 6  
      }  
    ]  
  }  
}
```

- Quantity can be up to 3 decimal places (depending on the Unit of Measure settings).
- Selling Price can be up to 2 decimal places. If more accuracy is required, make use of the Selling Price Per field.
- Selling Price Per follows the same rules as the quantity
- The above applies to ALL sales documents

- **GET Invoice**

- Purpose:

Returns an Invoice header and line details.

- URI Format:

http://<Host>:<Port>/Invoice/<Invoice Number>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>

- Response

Content Type = "application/json"

Example JSON Response:

```
{  
  "invoice": {  
    "source_type": "None", "source_reference": "", "customer_account_code":  
    "BO01", "customer_branch_code": "HO", "customer_name": "Botha Contractors",  
    "warehouse_code": "1", "job_no": "", "customer_order_no": "", "delivery_details": "",  
    "document_date": "2016-07-27", "rep_code": "JK", "area_code": "CEN", "vat_registration_no":  
    "498756325", "postal_address_1": "97 North Coast Road", "postal_address_2": "Durban",  
    "postal_address_3": "", "postal_address_4": "", "postal_address_5": "", "post_code": "4001",  
    "cell_number": "", "picker": "", "driver": "", "analysis_4": ""  
  }  
}
```

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```
"invoice_lines":
[ {"id": 1, "reference": "I00031", "line_no": 1, "sequence_no": 1, "line_type": "S",
  "stock_code": "BRS0001", "description": "LARGE PAINT BRUSH",
  "warehouse": "1", "ordered": 0, "measure": "EA", "delivered": 0, "invoiced": 0,
  "credited": 0, "to_invoice": 5, "to_deliver": 5, "to_credit": 0, "back_orders": "KEEP",
  "cost_price": 13.5, "cost_price_per": 1, "unit_cost_price": 13.5, "selling_price": 18,
  "selling_price_per": 1, "discount": 0, "vat_code": "1", "vat_rate": 14,
  "revenue_acc_code": "100130", "sub_job_category_code": "",
  "deal_id": 1, "no_discount": null, "cell_number": "", "picker": "", "driver": "",
  "analysis_4": "", "due": "2014-03-31", "reference_no": "I00031",
  "source_reference_no": "", "source_type": "None", "job_no": "",
  "measure_description": "Each", "ext_price": 90, "ext_price_(excl)": 90,
  "ext_price_(incl)": 102.6, "vat_value": 12.6, "local_vat_value": 12.6,
  "tax_type": "Normal - Local", "unit_price": 18, "ext_cost_price": 67.5,
  "gross_profit": 22.5, "gp_%": 25, "markup_%": 33.3333,
  "quantity": 5, "unit_weight": 0, "unit_volume": 0, "ext_weight": 0,
  "ext_volume": 0, "stock_level": 93, "min_level": 0, "qty_short": 0,
  "stock_type": "Product", "pack": 1, "bin_location_code": "A01",
  "bin_location_description": "Aisle 1", "product_group_code": "NELE",
  "product_group_description": "Tools - Non Electrical",
  "stock_category_code": "TOL", "stock_category_description": "Tools",
  "revenue_acc_description": "Sales-Tools", "sub_job_category_description": "None",
  "stock_description": "LARGE PAINT BRUSH", "warehouse_description": "Main Warehouse",
  "bar_code": "", "pref_supplier": "", "extra_info_2": "", "extra_info_3": "", "extra_info_4": "",
  "extra_info_5": "", "extra_info_6": "", "extra_info_7": "", "extra_info_8": "",
  "use_serial_no": false, "use_batch_no": false, "use_tracking_no_3": false,
  "use_tracking_no_4": false, "warranty_period": 0, "deal_narrative": ""} ]}]}
```

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- **POST Invoice**

- Purpose: Inserts a new Invoice with the items specified in the JSON object.

Only POST and GET are supported to insert and retrieve invoices. Invoice cannot be edited nor deleted.

- URI Format:

`http://<Host>:<Port>/Invoice/<Invoice Number>?UserName=<User Name>& Password=<Password>&CompanyName=<Company Name>`

<Invoice Number> is optional. If left blank, then the next system defined invoice reference number will be used, and returned to you in the response

- Request:

Content Type = "application/json"

Example of minimum JSON Content to be passed to the URI:

```
{"invoice" : {"customer_account_code" : "BO01",  
"invoice_lines":  
[ {"stock_code" : "BRS0001",  
"quantity" : 5}]}}
```

See "GET Invoice" above for an example of full JSON, it is colour coded as to what fields are read-only, optional, etc. Fields left out, will pick up the system default.

See PUT/POST Sales Order for explanation of limitations on decimal places on quantity and price.

- **GET and POST Credit Note**

- Purpose: Retrieve or insert a sales credit note

- URI Format:

`http://<Host>:<Port>/Credit Note/<Reference Number>?UserName=<User Name>& Password=<Password>&CompanyName=<Company Name>`

When POSTing, <Reference Number> is optional. If left blank, then the next system defined credit note reference number will be used, and returned to you in the response

- POST Request:

Example of minimum JSON Content to be passed to the URI:

```
{"credit_note" : {"customer_account_code" : "BO01",  
"credit_note_lines_lines":  
[ {"stock_code" : "BRS0001",  
"quantity" : 5}]}}
```

See "GET Invoice" above for an example of full JSON, it is colour coded as to what fields are read-only, optional, etc. Fields left out, will pick up the system default.

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- **GET Proforma Invoice**

- Purpose:

Returns a Proforma Invoice header and line details.

- URI Format:

http://<Host>:<Port>/Proforma Invoice/<Invoice Number>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>

- Response

Content Type = "application/json"

Example JSON Response:

```
{
  "proforma_invoice": {
    "source_type": "None",
    "source_reference": "",
    "customer_account_code": "MA01",
    "customer_branch_code": "HO",
    "customer_name": "Makoshi Supplies",
    "warehouse_code": "1",
    "job_no": "",
    "customer_order_no": "MS001",
    "delivery_details": "",
    "rep_code": "HS",
    "area_code": "CEN",
    "vat_registration_no": "",
    "postal_address_1": "56 Cato Manor Road",
    "postal_address_2": "Cato Manor",
    "postal_address_3": "",
    "postal_address_4": "",
    "postal_address_5": "",
    "post_code": "3596",
    "cell_number": "",
    "picker": "",
    "driver": "",
    "analysis_4": "",
    "proforma_invoice_lines": [
      {
        "id": 1,
        "reference": "P00001",
        "line_no": 1,
        "sequence_no": 1,
        "line_type": "S",
        "stock_code": "CAB002",
        "description": "Painted Pine Tool Cabinet",
        "warehouse": "1",
        "ordered": 0,
        "measure": "EA",
        "delivered": 0,
        "invoiced": 0,
        "credited": 0,
        "to_invoice": 2,
        "to_deliver": 2,
        "to_credit": 0,
        "back_orders": "KEEP",
        "cost_price": 718.08,
        "cost_price_per": 1,
        "unit_cost_price": 718.08,
        "selling_price": 2999.99,
        "selling_price_per": 1,
        "discount": 0,
        "vat_code": "1",
        "vat_rate": 14,
        "revenue_acc_code": "100100",
        "sub_job_category_code": null,
        "deal_id": -1,
        "no_discount": "N",
        "cell_number": "",
        "picker": "",
        "driver": "",
        "analysis_4": "",
        "due": "2015-06-12",
        "reference_no": "P00001",
        "source_reference_no": "",
        "source_type": "None",
        "job_no": "",
        "measure_description": "Each",
        "ext_price": 5999.98,
        "ext_price_excl": 5999.98,
        "ext_price_incl": 6839.98,
        "vat_value": 840,
        "local_vat_value": 840,
        "tax_type": "Normal - Local",
        "unit_price": 2999.99,
        "ext_cost_price": 1436.16,
        "gross_profit": 4563.82,
        "gp_%": 76.0639,
        "markup_%": 317.7794,
        "quantity": 2,
        "unit_weight": 0,
        "unit_volume": 0,
        "ext_weight": 0,
        "ext_volume": 0,
        "stock_level": 17,
        "min_level": 0,
        "qty_short": 0,
        "stock_type": "Product",
        "pack": 1,
        "bin_location_code": "A01",
        "bin_location_description": "Aisle 1",
        "product_group_code": "GEN",
        "product_group_description": "Building - General",
        "stock_category_code": "BLD",
        "stock_category_description": "Building",
        "revenue_acc_description": "Sales - Paint",
        "sub_job_category_description": "None",
        "stock_description": "Painted Pine Tool Cabinet",
        "warehouse_description": "Main Warehouse",
        "bar_code": "",
        "pref_supplier": "",
        "extra_info_2": "",
        "extra_info_3": "",
        "extra_info_4": "",
        "extra_info_5": "",
        "extra_info_6": "",
        "extra_info_7": ""
      }
    ]
  }
}
```

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```
"extra_info_8" : "", "use_serial_no" : false, "use_batch_no" : false, "use_tracking_no_3" : false,  
"use_tracking_no_4" : false, "warranty_period" : 0, "deal_narrative" : "Selling Price: 1"]]]}]}
```


Omni Accounts REST API

- **PUT Proforma Invoice**

- Purpose:

Creates or updates a Proforma Invoice with the items specified in the JSON object.

- URI Format:

http://<Host>:<Port>/Sales Order/<Proforma Invoice Number>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>

- Request:

Content Type = "application/json"

Example JSON Content to be passed to the URI: *(Indicates minimum required fields)*.

```
{ "proforma_invoice" : { "customer_account_code" : "HA01",  
  "proforma_invoice_lines":  
  [ { "stock_code" : "CAB0001",  
    "quantity" : 8 } ] }
```

- **POST Proforma Invoice**

- Purpose:

Inserts a new Proforma Invoice with the items specified in the JSON object.

- URI Format:

http://<Host>:<Port>/Sales Order/<Proforma Invoice Number>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>

- Request:

Content Type = "application/json"

Example JSON Content to be passed to the URI: *(Indicates minimum required fields)*.

```
{ "proforma_invoice" : { "customer_account_code" : "HA01",  
  "proforma_invoice_lines":  
  [ { "stock_code" : "CAB0001",  
    "quantity" : 8 } ] }
```

Omni Accounts REST API

- **GET Banking Transaction**

- Purpose:

Returns a banking transaction, and all its target split lines.

- URI Format:

http://<Host>:<Port>/BankingTransaction/<Tran No>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>

- Response

Content Type = "application/json"

Example JSON Response:

```
{ "bank_transaction" : {  
  "bank_account" : "500201",  
  "transaction_date" : "2016-08-04",  
  "transaction_category" : "Receipt",  
  "transaction_type" : "Cash",  
  "amount" : 226.86,  
  "dr_or_cr" : "Dr",  
  "reference" : "000013",  
  "payee" : "",  
  "narrative" : "",  
  "installments" : 1,  
  "installments_paid" : 1,  
  "reconciled" : true,  
  "reconciled_date" : "2016-08-23",  
  "batch_processed" : true,  
  "is_batch" : false,  
  "financial_year" : 2011,  
  "period" : 6,  
  "process_exchange_rate" : 1,  
  "process_exchange_rate_type" : "Local : Forex",  
  "pos_id" : 1,  
  "system_date" : "2016-08-04",  
  "user_name" : "Admin",  
  "active" : true,  
  "id" : 18,  
  "target_lines" : [ {  
    "detail_id" : 19,  
    "detail_reference" : "000013",  
    "detail_narrative" : "",  
    "statement_description" : "",  
    "dr_amount" : 0,  
    "cr_amount" : 226.86,  
    "vat_code" : "Z",  
    "vat_amount" : 0,  
    "target_ledger" : "Customers",  
    "target_ledger_account" : "CASH",  
    "target_ledger_amount" : -226.86,  
    "change_amount" : -3.14,
```

Omni Accounts REST API

```
"vat_rate" : 0,  
"external_tran_no" : 34}
```

Omni Accounts REST API

- **POST Banking Transaction**
- Purpose: Inserts a new banking transaction, using the information specified in the JSON object.

Only POST and GET are supported to insert and retrieve banking transactions.

URI Format:

```
http://<Host>:<Port>/BankingTransaction?UserName=<User Name>&
Password=<Password>&CompanyName=<Company Name>
```

When posting, no transaction number must be specified. Upon successful processing, the transaction number will be returned.

- Request:
Content Type = "application/json"

Example of minimum JSON Content to be passed to the URI:

```
{ "bank_transaction" : {
  "bank_account" : "500201",
  "transaction_date" : "2016-08-04",
  "transaction_category" : "Receipt",
  "transaction_type" : "Cash",
  "amount" : 226.86,
  "reference" : "000013",
  "payee" : "",
  "narrative" : "",
  "target_lines" : [ {
    "detail_reference" : "000013",
    "detail_narrative" : "",
    "statement_description" : "",
    "dr_amount" : 0,
    "cr_amount" : 226.86,
    "vat_code" : "Z",
    "vat_amount" : 0,
    "target_ledger" : "Customers",
    "target_ledger_account" : "CASH",
    "target_ledger_amount" : -226.86,
    "pre_allocations" : [{"module" : "Invoice" , "reference" : "I00125"}, {"module" : "Invoice" , "reference" : "I00156"}] } ] }
```

Set Transaction Category to Receipt for receiving money, and Payment for paying money.

Pre-allocations are optional, and will determine what the banking transaction gets allocated to when processed.

VAT Code is only applicable when the Target Ledger is Nominal Ledger.

See "GET Banking Transaction" above for an example of full JSON, it is colour coded as to what fields are **mandatory**, read-only, **optional**, etc. Fields left out, will pick up the system default.

Omni Accounts REST API

- **GET Stock Item**

- Purpose:

Returns a stock item/s details.

- URI Format:

http://<Host>:<Port>/Stock Item/<Stock Code>?UserName=<User Name>&
Password=<Password>&CompanyName=<Company Name>

- Response

Content Type = "application/json"

Example JSON Response:

```
{ "stockitem" : { "stock_code" : "BRS0003", "stock_description" : "SMALL PAINT BRUSH",  
"stock_type" : "PRODUCT", "product_group" : "NELE", "stock_category" : "TOL",  
"extra_details_1" : "", "extra_details_2" : "", "extra_details_3" : "",  
"extra_details_4" : "", "extra_details_5" : "", "extra_details_6" : "",  
"extra_details_7" : "", "extra_details_8" : "", "measure" : "EA",  
"bar_code" : "", "weight" : 0, "volume" : 0, "pack" : 1,  
"back_orders_on_sales_orders" : "DEFAULT", "extra_cost_apportioning_method" : "NONE",  
"valuation_method" : "AVERAGE", "cost_price" : 8.38, "cost_price_per" : 1,  
"selling_price_1" : 13, "selling_price_1_per" : 1, "selling_price_1_currency" : "ZAR",  
"selling_price_2" : 0, "selling_price_2_per" : 1, "selling_price_2_currency" : "ZAR",  
"selling_price_3" : 0, "selling_price_3_per" : 1, "selling_price_3_currency" : "ZAR",  
"vat_code" : "1", "selling_prices_are_inclusive" : 0, "use_auto_selling_price_markup" : "N",  
"no_discounts" : "N", "discount_1" : 0, "discount_2" : 0, "discount_3" : 0,  
"discount_4" : 0, "discount_5" : 0, "uses_tracking_no_1" : "N", "uses_tracking_no_2" : "N",  
"uses_tracking_no_3" : "N", "uses_tracking_no_4" : "N", "warranty_period_in_days" : 0,  
"shelf_life_in_days" : 0, "popup_memo" : "N", "active" : "Y", "id" : 7 } }
```

Omni Accounts REST API

- **GET Quote**

- Purpose:

Returns a quote header and details.

- URI Format:

http://<Host>:<Port>/Quote/<Quote Number>?UserName=<User Name>&
Password=<Password>&CompanyName=<Company Name>

- Response

Content Type = "application/json"

Example JSON Response:

```
{  
  "quote": {  
    "source_type": "None", "source_reference": "", "customer_account_code":  
    "NA01", "customer_branch_code": "HO", "customer_name": "Mr Naidoo", "warehouse_code":  
    "1", "job_no": "", "customer_order_no": "", "delivery_details": "", "rep_code": "HS",  
    "area_code": "STH", "vat_registration_no": "123456789", "postal_address_1": "P O Box 345",  
    "postal_address_2": "Chatsworth", "postal_address_3": "", "postal_address_4": "",  
    "postal_address_5": "", "post_code": "3785", "cell_number": "", "picker": "", "driver": "",  
    "analysis_4": "", "quote_lines": [ { "id": 4, "reference": "Q00008", "line_no": 1,  
    "sequence_no": 1, "line_type": "S", "stock_code": "CAB0001",  
    "description": "Pine Tool Cabinet", "warehouse": "1", "ordered": 3, "measure": "EA",  
    "delivered": 0, "invoiced": 0, "credited": 0, "to_invoice": 0, "to_deliver": 0, "to_credit": 0,  
    "back_orders": "KEEP", "cost_price": 458.56, "cost_price_per": 1, "unit_cost_price": 458.56,  
    "selling_price": 1250, "selling_price_per": 1, "discount": 0, "vat_code": "1", "vat_rate": 14,  
    "revenue_acc_code": "100100", "sub_job_category_code": null, "deal_id": -1,  
    "no_discount": "N", "cell_number": "", "picker": "", "driver": "", "analysis_4": "",  
    "due": "2015-07-12", "reference_no": "Q00008", "source_reference_no": "",  
    "source_type": "None", "job_no": "", "measure_description": "Each",  
    "ext_price": 3750, "ext_price_(excl)": 3750, "ext_price_(incl)": 4275,  
    "vat_value": 525, "local_vat_value": 525, "tax_type": "Normal - Local",  
    "unit_price": 1250, "ext_cost_price": 1375.68, "gross_profit": 2374.32,  
    "gp_%": 63.3152, "markup_%": 172.5925, "quantity": 3,  
    "unit_weight": 0, "unit_volume": 0, "ext_weight": 0, "ext_volume": 0,  
    "stock_level": 97, "min_level": 0, "qty_short": 0, "stock_type": "Product",  
    "pack": 1, "bin_location_code": "A01", "bin_location_description": "Aisle 1",  
    "product_group_code": "NON", "product_group_description": "None",  
    "stock_category_code": "NON", "stock_category_description": "None",  
    "revenue_acc_description": "Sales - Paint", "sub_job_category_description": "None",  
    "stock_description": "Pine Tool Cabinet", "warehouse_description": "Main Warehouse",  
    "bar_code": "", "pref_supplier": "", "extra_info_2": "", "extra_info_3": "", "extra_info_4": "",  
    "extra_info_5": "", "extra_info_6": "", "extra_info_7": "", "extra_info_8": "",  
    "use_serial_no": false, "use_batch_no": false, "use_tracking_no_3": false,  
    "use_tracking_no_4": false, "warranty_period": 0, "deal_narrative": "Selling Price: 1"} ] } }
```

Omni Accounts REST API

- **PUT Quote**

- Purpose:

Creates or updates an open quote with the items specified in the JSON object.

- URI Format :

http://<Host>:<Port>/Quote/<Quote Number>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>

- Request:

Content Type = "application/json"

Example JSON Content to be passed to the URI: *(Indicates minimum required fields)*.

```
{"quote": {"customer_account_code": "MA01",  
"quote_lines":  
[{"stock_code": "EXT0002",  
"quantity": 6}]}}
```

- **POST Quote**

- Purpose:

Creates a new quote with the items specified in the JSON object.

- URI Format :

http://<Host>:<Port>/Quote/<Quote Number>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>

- Request:

Content Type = "application/json"

Example JSON Content to be passed to the URI: *(Indicates minimum required fields)*.

```
{"quote": {"customer_account_code": "MA01",  
"quote_lines":  
[{"stock_code": "EXT0002",  
"quantity": 6}]}}
```

Omni Accounts REST API

- **GET NLJournal**
- Purpose:
Returns details of the specified Nominal Journal.
- URI Format:
`http://<Host>:<Port>/NLJournal/<Journal Number>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>`
- Response
Content Type = "application/json"

Example JSON Response:

```
{ "nl_journal_batch" : { "batch_name" : "TAKEON", "due_date" : "2014-02-28",  
  "entries":  
    [ { "nl_account_no" : "400100", "debit_amount" : 7517.19, "credit_amount" : 0, "reference" :  
      "TAKEON", "narrative" : "", "vat_category" : "None", "vat_code" : "Z"},  
      { "nl_account_no" : "400330", "debit_amount" : 4385.96, "credit_amount" : 0, "reference" :  
      "TAKEON", "narrative" : "", "vat_category" : "None", "vat_code" : "Z"},  
      { "nl_account_no" : "800050", "debit_amount" : 0, "credit_amount" : 30, "reference" :  
      "TAKEON", "narrative" : "", "vat_category" : "None", "vat_code" : "Z"},  
      { "nl_account_no" : "800100", "debit_amount" : 0, "credit_amount" : 16687.2, "reference" :  
      "TAKEON", "narrative" : "", "vat_category" : "None", "vat_code" : "Z"},  
      { "nl_account_no" : "700120", "debit_amount" : 0, "credit_amount" : 25986, "reference" :  
      "TAKEON", "narrative" : "", "vat_category" : "None", "vat_code" : "Z"},  
      { "nl_account_no" : "ZZZZZZ", "debit_amount" : 30800.05, "credit_amount" : 0, "reference" :  
      "TAKEON", "narrative" : "", "vat_category" : "None", "vat_code" : "Z"} ] }
```


Omni Accounts REST API

- **POST Comm**
- Purpose
Returns details of a specified communication on a customer's account.
- URI Format:
`http://<Host>:<Port>/Comm/<Comm Number>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>`
- Response
Content Type = "application/json"

Example JSON Response:

```
{ "communication": { "id": 1, "replying_to_comment_id": 0, "subject": "This is the subject",  
"category_code": "ACC-INV", "entered_by": "Admin", "date_entered": "2015-06-12",  
"assigned_to": "Admin", "follow_up_date": "2015-06-12", "date_last_modified": "2015-06-12",  
"last_modified_by": "Admin", "body": "testing web service", "links": [ { "link": { "module":  
"Customer Account", "code": "MA01" } } ] }
```

- **GET Report**
- Purpose:
Extracts a given report's data as a JSON array (ie. No formatting, or layout in PDF, HTML, etc)
- URI Format:
`http://<Host>:<Port>/Report/<Report Name>?UserName=<User Name>&Password=<Password>&CompanyName=<Company Name>`
- Response
Content Type = "application/json"

Example JSON Response: (/Customer Export?)

```
{ "customer_export": [ { "customer_account": "CASH", "customer_name": "Cash Sales",  
"physical_address_1": "", "physical_address_2": "", "physical_address_3": "",  
"physical_address_4": "", "physical_address_5": "", "postal_address_1": "",  
"postal_address_2": "", "postal_address_3": "", "postal_address_4": "",  
"postal_address_5": "", "postal_code": "", "vat_type": "Exclusive",  
"vat_registration_no": "", "vat_code": "1", "currency": "ZAR", "account_type": "Open Item",  
"area_code": "000", "customer_category": "RET", "credit_terms_code": "000",  
"credit_limit": 0, "customer_order_no_required": "N", "overall_disc_code": "000",  
"sales_rep_name": "House Sales", "back_orders": "Default", "account_on_hold": "N",  
"active": "Y", "contact_name": "", "contact_home": "", "contact_mobile": "",  
"contact_office": "", "fax_no": "", "web_site": "", "e_mail_address": "" } ] }
```

Omni Accounts REST API

To see a list of valid report names, in Omni go to File | Print Report.

You may also set up your own new report via File | New Report.

Reports commonly used are Customer Export and Stock Export.

Error Handling

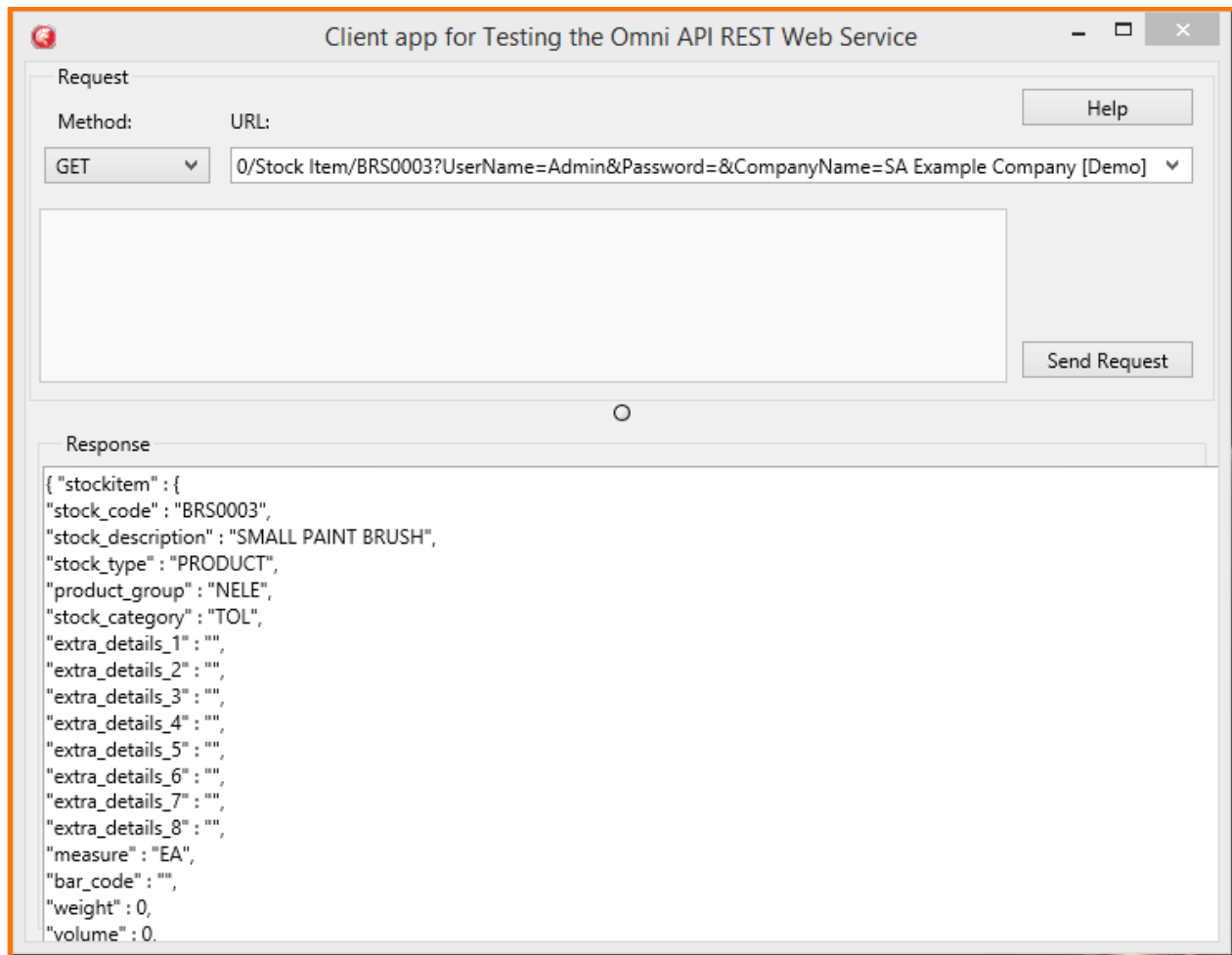
Because of the possible variations in error handling messages that could be returned if the required formats are not passed to the OMNI Accounts REST API, and the options available for configuring a company within Omni Accounts friendly error messages have been adopted in place of error codes.

If a friendly error message has not been handled for whatever reason within the OMNI Accounts REST API a detailed more technical error message will be returned indicating any underlying failures that may have happened while executing the requested action.

It is therefore strongly advised that the REST API Test Client application be used to test any calls that may be required to be made to the OMNI Accounts system from a 3rd party application via the Omni REST API.

OMNI Accounts REST Test Client:

Omni Accounts REST API



Location: <Omni Install Directory>\System\RESTClientTest.exe.

Omni Accounts REST API

Note:

The OmniWebServiceREST.exe service must be configured and running before attempting to run and test using the RESTClientTest.exe application.

Some Error Examples

Call Type	Get Customer
Example URI	http://127.0.0.1:8080/Customer/?UserName=Admin&Password=&CompanyName=SA Example Company [Demo]
Friendly Error	Customer not found
Explanation	An invalid or missing Customer was passed in the calling URI

Call Type	Get Sales Order
Example URI	http://127.0.0.1:8080/Sales Order/000001?UserName=Admin&Password=&CompanyName=SA Example Company [Demo]
Friendly Error	The following error occurred while attempting to load Sales Order 000001: Record not found.
Explanation	An invalid or missing Sales Order Number was passed in the calling URI.

Call Type	Get Stock
Example URI	http://127.0.0.1:8080/Stock Item/BRS0083?UserName=Admin&Password=&CompanyName=SA Example Company [Demo]
Friendly Error	Stock Code BRS0083 not found.
Explanation	An invalid or missing Stock Code was passed in the calling URI.

Call Type	POST Stock
Example URI	http://127.0.0.1:8080/Stock Item/?UserName=Admin&Password=&CompanyName=SA Example Company [Demo]
Friendly Error	A Stock Code needs to be specified.
Explanation	A Stock Code was not passed in the calling URI.

Call Type	Post Invoice
Example URI	http://127.0.0.1:8080/Invoice/I00036?UserName=Admin&Password=&CompanyName=SA Example Company [Demo]
Friendly Error	Sales Invoice I00036 already exists.
Explanation	A duplicate Sales Invoice Number was passed in the calling URI.

Call Type	Post Proforma Invoice
Example URI	http://127.0.0.1:8080/Proforma Invoice/P00034?UserName=Admin&Password=&CompanyName=SA Example Company [Demo]
Friendly Error	Invalid Customer Account Code HA9801
Explanation	An invalid or missing Customer Account Code was passed in the JSON content.