

# Amberdms Billing System SOAP API

This document contains information about the SOAP API provided by the Amberdms Billing System available for use by third-party software components.

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## 1. Introduction

The Amberdms Billing System has a comprehensive SOAP API to allow access to stored data by third-party scripts and software applications.

Some examples of applications this API can be used for:

1. Uploading service usage records.
2. Importing data from old programs – for example, the SQL-Ledger migration scripts connect via SOAP.
3. Linking the billing system to another programs such as service management applications.

SOAP is a protocol for exchanging information in XML markup ontop of an application protocol such as HTTP. Amberdms chose to use SOAP rather than POST for the APIs, because of the ease of handling two-way communications.

Because SOAP runs over the HTTP protocol, no additional daemons or services need to be running on the billing system server, everything is done via the webserver.

**Please be aware – the SOAP API in the Amberdms Billing System is not fully complete – all APIs documented in this manual are stable and will not be removed, however we are working on adding additional APIs to future releases to allow better interaction with timesheets, reporting options.**

To learn more about work being performed on the SOAP APIs email [support@amberdms.com](mailto:support@amberdms.com) or join the development mailing list.

## 2. Requirements

### 2.1. Amberdms Billing System

In order to support the SOAP API, the Amberdms Billing System must be running on a server with PHP version 5. If the Amberdms Billing System is running on PHP version 4, the SOAP API will not be available.

For reasons documented in the Installation Guide, Amberdms recommend the user of the Amberdms Billing System with version 5.2.0+.

### 2.2. Local PHP Requirements

If writing SOAP applications in PHP, you will require PHP version 5 or above with the SOAP extensions installed. Please be aware that some distributions will package the SOAP extensions separately to the main PHP page.

#### 2.2.1. RHEL / FEDORA / CENTOS

On Redhat-style distributions, you can install all the required packages with:

```
$ yum install php-cli php-soap
```

### 2.3. HTTPS

SOAP calls pass confidential information such as passwords, customer records and financial records via the network. It is important to ensure all connections to SOAP are made via HTTPS.

All users of the Amberdms Billing System Hosted Service are automatically forced to connect via HTTPS.

## 3. Amberdms Billing System Hosted Service

The Amberdms Billing System Hosted Service includes the full SOAP API for all customers. The following are some notes to be aware of.

### 3.1. Authentication

All customers of the Amberdms Billing System Hosted Service have full access and support for using the SOAP API. The SOAP API for hosted customers can be accessed at the following URL:

[https://www.amberdms.com/products/billing\\_system/online/api/](https://www.amberdms.com/products/billing_system/online/api/)

When writing/configuring your SOAP applications, remember that when authenticating, your application must all three authentication variables:

1. Account – must be set to your customer ID.
2. Username
3. Password

Without the account, your SOAP applications will be denied access since the Amberdms Billing System will be unable to determine which account to connect you to.

### 3.2. Service Usage Records

Heavy use of the SOAP API for recording usage information may use up your data allocation faster than expected.

Amberdms recommend only making one upload of usage information for each day for each customer – because invoicing only runs on a daily basis, having more frequent service usage records (eg: every 5 minutes) is a waste of storage and processing.

## 4. Getting Support

### 4.1. Community Support

The community support mailing list is a good place for obtaining support when using the SOAP API .

General Discussion List:

<http://lists.amberdms.com/mailman/listinfo/amberdms-bs>

Amberdms Billing System Developers Mailing List:

<http://lists.amberdms.com/mailman/listinfo/amberdms-bs-devel>

### 4.2. Customisation/Development Services

If you would like to develop a SOAP application to talk to the Amberdms Billing System or integrate the Amberdms Billing System with your existing software applications, Amberdms can provide development services at a competitive price.

Talk to [sales@amberdms.com](mailto:sales@amberdms.com) about your requirements for more information on how we can help your organisation.

## 5. API Basics

The Amberdms Billing System has divided the different APIs into sections with separate WDSL definition files.

All client programs should be configured to download the WDSL files directly from the billing system rather than having local copies as this ensures client applications will be provided with the correct version document for the version of the billing system being accessed.

The documentation below defines all the available APIs, acceptable input/output and what failure messages might occur.



## 6. API: authenticate

### 6.1. authenticate

|            |   |
|------------|---|
| Executable | api/authenticate/authenticate.php                             |
| WSDL       | api/authenticate/authenticate.wsdl                            |
| Summary    | Provides authentication – required before using any other API |

Before using any other SOAP calls, the client needs to authenticate against the billing system by using the authenticate API.

Authentication is handled by the same backend as the main web application. This provides two important features of note:

1. There is no distinction between SOAP and web application users – all users are configured in the same way, and their abilities are defined by the user's permissions.
2. The authenticate API will handle blacklisting in the same way as the web application.

When writing anything other than a basic script with SOAP, it is very likely the client will need to make multiple SOAP calls to different APIs.

It would be inefficient to have to authenticate for every single request, so instead the authenticate::login function will return a PHP session ID once successfully authenticated.

This session ID can then be passed via HTTP GET to any SOAP connections to gain access.

For example:

1. Call [https://www.amberdms.com/products/billing\\_system/online/api/authenticate/authenticate.php](https://www.amberdms.com/products/billing_system/online/api/authenticate/authenticate.php)
2. Get session ID string to \$PHPSESSION
3. Call [https://www.amberdms.com/products/billing\\_system/online/api/service/example.php?PHPSESSION](https://www.amberdms.com/products/billing_system/online/api/service/example.php?PHPSESSION)

This will eliminate the need to re-authenticate during the programs runtime, however it is worth noting that there is a timeout on the session.

If you have a complex application which authenticates and provides a number of different features to a user, you either need to re-authenticate on each call in your application, or have the application user timeout set to less than the timeout on the billing system, otherwise there is the risk of the session timing out between user actions.

#### 6.1.1. LOGIN

##### Input

|          |        |          |   |
|----------|--------|----------|---|
| account  | string | required | ID of customer's account (Amberdms Hosted Service only) |
| username | string | required | Username (plaintext)                                    |
| password | string | required | Password (plaintext)                                    |

##### Output

|           |        |  |
|-----------|--------|--|
| sessionid | string | Session ID/string, suitable for passing via HTTP GET |
|-----------|--------|--|

**Failure Codes**

|                     |   |
|---------------------|---|
| USER_DISABLED       | Requested username/account was valid, but the user has been disabled by the administrator.            |
| BLACKLISTED         | Too many invalid authentication attempts and the client IP has been blacklisted for security reasons. |
| INVALID_AUTHDETAILS | Supplied username or password is invalid.   |
| INVALID_ACCOUNT     | Supplied account is invalid (Amberdms Hosted Version only)  |

## 7. API: services

### 7.1. services\_usage

|            |   |
|------------|---|
| Executable | api/services/usage.php  |
| WSDL       | api/services/usage.wsdl   |
| Summary    | Provides various calls for fetching customer usage information and also provides calls to upload usage information into the billing system. |

The service usage API is very important for anyone who wants to bill for usage on service, as it is the only way to enter values into the database.

Amberdms has prepared a detailed document explaining how to work with the service usage API in more details with a focus on assisting ISPs and hosting providers to configure usage billing for their services.

*Please read through the Service Usage Guide documentation for more detailed information than the API documentation below.*

#### 7.1.1. SET\_USAGE\_RECORD

Uploads usage information into the billing system for the provided customer/service ID. This usage information is later used when the service invoices are generated.

The set\_usage\_record call will always add a new row to the usage table – if there is already a row for this date another one will be added causing the totals for the date to increment.

#### Required Permissions

- services\_write\_usage

#### Input

|                       |        |  |
|-----------------------|--------|--|
| collector             | string | Name of the collector (anything is acceptable)                           |
| services_customers_id | string | ID of the services_customers record for this customer/service assignment |
| date                  | date   | YYYY-MM-DD   |
| usage1                | int    | Usage field #1   |
| usage2                | int    | Usage field #2   |

#### Output

|            |        |             |
|------------|--------|-------------|
| returncode | string | Return Code |
|------------|--------|-------------|

#### Failure Codes

|                               |  |
|-------------------------------|--|
| ACCESS_DENIED                 | Invalid permissions or not logged in   |
| INVALID_INPUT                 | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_SERVICES_CUSTOMERS_ID | Invalid services_customers_id record.  |
| UNEXPECTED_DB_ERROR           | Unexpected failure with the DB.  |

## 8. API: hr

### 8.1. hr\_staff\_manage

|            |   |
|------------|---|
| Executable | api/hr/staff_manage.php   |
| WSDL       | api/hr/staff_manage.wsdl  |
| Summary    | Provides various calls for viewing, adjusting and deleting employees. |

#### 8.1.1. GET\_EMPLOYEE\_DETAILS

Fetches an array containing all the employee details for the provided employee ID.

##### Required Permissions

- staff\_view

##### Input

|    |     |          |             |
|----|-----|----------|-------------|
| id | int | required | Employee ID |
|----|-----|----------|-------------|

##### Output

|                |        |                      |
|----------------|--------|----------------------|
| name_staff     | string | Employee Name        |
| staff_code     | string | Employee code        |
| staff_position | string |                      |
| contact_phone  | string |                      |
| contact_fax    | string |                      |
| contact_email  | email  | Single email address |
| date_start     | date   | YYYY-MM-DD           |
| date_end       | date   | YYYY-MM-DD           |

##### Failure Codes

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when loading data.  |

#### 8.1.2. SET\_EMPLOYEE\_DETAILS

Takes the provided values and creates or updates an employee.

##### Required Permissions

- staff\_write

##### Input

|                |        |          |  |
|----------------|--------|----------|--|
| id             | int    |          | Employee ID – leave blank to create a new employee |
| name_staff     | string | required | Employee Name                                      |
| staff_code     | string |          | Employee code                                      |
| staff_position | string |          |  |
| contact_phone  | string |          |  |
| contact_fax    | string |          |  |
| contact_email  | email  |          | Single email address                               |
| date_start     | date   | required | YYYY-MM-DD   |
| date_end       | date   |          | YYYY-MM-DD   |

**Output**

|    |     |             |
|----|-----|-------------|
| id | int | Employee ID |
|----|-----|-------------|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| DUPLICATE_NAME_STAFF    | An employee already exists with the name_staff value you are trying to set.  |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                     |

**8.1.3. DELETE\_EMPLOYEE**

Deletes an employee, provided that the employee is not locked.

**Required Permissions**

- staff\_write

**Input**

|    |     |          |             |
|----|-----|----------|-------------|
| id | int | required | Employee ID |
|----|-----|----------|-------------|

**Output**

|            |     |  |
|------------|-----|--|
| returncode | int |  |
|------------|-----|--|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation.   |
| INVALID_ID              | Invalid ID/ID did not match to any records   |
| LOCKED                  | The employee can not be deleted because they have various data entries made against them. You should set the <i>date_end</i> field instead to hide the employee. |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.   |

## 9. API: customers

### 9.1. customers\_manage

|            |   |
|------------|---|
| Executable | api/customers/customers_manage.php                                    |
| WSDL       | api/customers/customers_manage.wsdl                                   |
| Summary    | Provides various calls for viewing, adjusting and deleting customers. |

*Tip: The customers\_manage API is very similar to the vendors\_manage API and it is very easy to adjust code for one API to use the other.*

#### 9.1.1. GET\_CUSTOMER\_ID\_FROM\_CODE

Looks up the provided code\_customer value and returns the actual customer ID.

##### Required Permissions

- customers\_view

##### Input

|               |        |          |                  |
|---------------|--------|----------|------------------|
| code_customer | string | required | Customer Code/ID |
|---------------|--------|----------|------------------|

##### Output

|    |     |                        |
|----|-----|------------------------|
| id | int | Customer's database ID |
|----|-----|------------------------|

##### Failure Codes

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid code_customer or the code_customer did not match to any records      |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when loading data.  |

#### 9.1.2. GET\_CUSTOMER\_DETAILS

Fetches an array containing all the customer details for the provided ID.

##### Required Permissions

- customers\_view

##### Input

|    |     |          |             |
|----|-----|----------|-------------|
| id | int | required | Customer ID |
|----|-----|----------|-------------|

##### Output

|               |        |                  |
|---------------|--------|------------------|
| code_customer | string | Customer Code/ID |
| name_customer | string | Customer Name    |

|                   |        |   |
|-------------------|--------|---|
| name_contact      | string |   |
| contact_email     | email  | Single email address                            |
| contact_phone     | string |   |
| contact_fax       | string |   |
| date_start        | date   | YYYY-MM-DD                                      |
| date_end          | date   | YYYY-MM-DD                                      |
| tax_number        | string |   |
| tax_default       | int    | ID of the tax used as the customer's default    |
| tax_default_label | string | Human-readable name of the above tax            |
| address1_street   | string |   |
| address1_city     | string |   |
| address1_state    | string |   |
| address1_country  | string |   |
| address1_zipcode  | string |   |
| address2_street   | string |   |
| address2_city     | string |   |
| address2_state    | string |   |
| address2_country  | string |   |
| address2_zipcode  | string |   |
| discount          | float  | Purchase discount that applies to all products. |

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when loading data.  |

**9.1.3. LIST\_CUSTOMER\_TAX**

Displays a list of all taxes and flags which ones are enabled for the selected customer.

**Required Permissions**

- customers\_view

**Output – Multiple rows structured as:**

|          |        |   |
|----------|--------|---|
| id       | int    | ID of the menu option – this is typically not used. |
| taxid    | int    | ID of the tax                                       |
| name_tax | string | Human-readable name of the tax                      |
| status   | string | Either “on” (aka enabled) or “off”.                 |

### 9.1.4. SET\_CUSTOMER\_DETAILS

Takes the provided values and creates or updates a customer.

#### Required Permissions

- customers\_write

#### Input

|                  |        |          |  |
|------------------|--------|----------|--|
| id               | int    |          | Customer ID – leave blank to create a new customer |
| code_customer    | string |          | Customer Code                                      |
| name_customer    | string | required | Customer Name                                      |
| name_contact     | string |          |  |
| contact_email    | email  |          | Single email address                               |
| contact_phone    | string |          |  |
| contact_fax      | string |          |  |
| date_start       | date   | required | YYYY-MM-DD   |
| date_end         | date   |          | YYYY-MM-DD   |
| tax_number       | string |          |  |
| tax_default      | int    |          | ID of the tax to use as the customer's default     |
| address1_street  | string |          |  |
| address1_city    | string |          |  |
| address1_state   | string |          |  |
| address1_country | string |          |  |
| address1_zipcode | string |          |  |
| address2_street  | string |          |  |
| address2_city    | string |          |  |
| address2_state   | string |          |  |
| address2_country | string |          |  |
| address2_zipcode | string |          |  |
| discount         | float  |          | Purchase discount that applies to all products.    |

#### Output

|    |     |             |
|----|-----|-------------|
| id | int | Customer ID |
|----|-----|-------------|

#### Failure Codes

|                         |   |
|-------------------------|---|
| ACCESS_DENIED           | Invalid permissions or not logged in  |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation.  |
| INVALID_ID              | Invalid ID/ID did not match to any records                                    |
| DUPLICATE_NAME_CUSTOMER | Another customer already exists with the provided <i>name_customer</i> value. |
| DUPLICATE_CODE_CUSTOMER | Another customer already exists with the provided <i>code_customer</i> value. |
| HAS_ACTIVE_SERVICES     | Customer has active services so the <i>date_end</i> value may not be set.     |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                      |



### 9.1.5. SET\_CUSTOMER\_TAX

Function to enable or disable specific taxes for a customer.

#### Required Permissions

- customers\_write

#### Input

|        |        |          |   |
|--------|--------|----------|---|
| id     | int    | required | Customer ID   |
| taxid  | int    | required | Tax ID - use function <i>list_customer_tax</i> to get all the available tax IDs |
| status | string | required | Either “on” or “off” to enable/disable this menu option.                        |

#### Output

|     |     |             |
|-----|-----|-------------|
| int | int | Return code |
|-----|-----|-------------|

#### Failure Codes

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                     |

### 9.1.6. DELETE\_CUSTOMER

Deletes the customer, provided that they are not locked. A customer is “locked” if the customer has invoices or time groups assigned to them and can not be deleted for database consistency reasons.

#### Required Permissions

- customers\_write

#### Input

|    |     |          |             |
|----|-----|----------|-------------|
| id | int | required | Customer ID |
|----|-----|----------|-------------|

#### Output

|            |     |  |
|------------|-----|--|
| returncode | int |  |
|------------|-----|--|

#### Failure Codes

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation.   |
| INVALID_ID              | Invalid ID/ID did not match to any records   |
| LOCKED                  | The customer can not be deleted because they have various data entries made against them. You should set the <i>date_end</i> field instead to hide the customer. |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.   |

## 10. API: vendors

### 10.1. vendors\_manage

|            |   |
|------------|---|
| Executable | api/vendors/vendors_manage.php                                      |
| WSDL       | api/vendors/vendors_manage.wsdl                                     |
| Summary    | Provides various calls for viewing, adjusting and deleting vendors. |

*Tip: The vendors\_manage API is very similar to the customers\_manage API and it is very easy to adjust code for one API to use the other.*

#### 10.1.1. GET\_VENDOR\_DETAILS

Fetches an array containing all the vendor details for the provided ID.

##### Required Permissions

- vendors\_view

##### Input

|    |     |          |           |
|----|-----|----------|-----------|
| id | int | required | Vendor ID |
|----|-----|----------|-----------|

##### Output

|                   |        |  |
|-------------------|--------|--|
| code_vendor       | string | Vendor Code/ID                             |
| name_vendor       | string | Vendor Name                                |
| name_contact      | string |  |
| contact_email     | email  | Single email address                       |
| contact_phone     | string |  |
| contact_fax       | string |  |
| date_start        | date   | YYYY-MM-DD                                 |
| date_end          | date   | YYYY-MM-DD                                 |
| tax_number        | string |  |
| tax_default       | int    | ID of the tax used as the vendor's default |
| tax_default_label | string | Human-readable name of the above tax       |
| address1_street   | string |  |
| address1_city     | string |  |
| address1_state    | string |  |
| address1_country  | string |  |
| address1_zipcode  | string |  |
| address2_street   | string |  |
| address2_city     | string |  |
| address2_state    | string |  |
| address2_country  | string |  |

|                  |        |   |
|------------------|--------|---|
| address2_zipcode | string |   |
| discount         | float  | Purchase discount that applies to all products. |

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when loading data.  |

**10.1.2. LIST\_VENDOR\_TAX**

Displays a list of all taxes and flags which ones are enabled for the selected vendor.

**Required Permissions**

- vendors\_view

**Output – Multiple rows structured as:**

|          |        |   |
|----------|--------|---|
| id       | int    | ID of the menu option – this is typically not used. |
| taxid    | int    | ID of the tax                                       |
| name_tax | string | Human-readable name of the tax                      |
| status   | string | Either “on” (aka enabled) or “off”.                 |

**10.1.3. SET\_VENDOR\_DETAILS**

Takes the provided values and creates or updates a vendor.

**Required Permissions**

- vendors\_write

**Input**

|                 |        |          |  |
|-----------------|--------|----------|--|
| id              | int    |          | Vendor ID – leave blank to create a new vendor |
| code_vendor     | string |          | Vendor Code                                    |
| name_vendor     | string | required | Vendor Name                                    |
| name_contact    | string |          |  |
| contact_email   | email  |          | Single email address                           |
| contact_phone   | string |          |  |
| contact_fax     | string |          |  |
| date_start      | date   | required | YYYY-MM-DD                                     |
| date_end        | date   |          | YYYY-MM-DD                                     |
| tax_number      | string |          |  |
| tax_default     | int    |          | ID of the tax to use as the vendor's default   |
| address1_street | string |          |  |

|                  |        |  |   |
|------------------|--------|--|---|
| address1_city    | string |  |   |
| address1_state   | string |  |   |
| address1_country | string |  |   |
| address1_zipcode | string |  |   |
| address2_street  | string |  |   |
| address2_city    | string |  |   |
| address2_state   | string |  |   |
| address2_country | string |  |   |
| address2_zipcode | string |  |   |
| discount         | float  |  | Purchase discount that applies to all products. |

**Output**

|    |     |           |
|----|-----|-----------|
| id | int | Vendor ID |
|----|-----|-----------|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| DUPLICATE_NAME_VENDOR   | Another vendor already exists with the provided <i>name_vendor</i> value.    |
| DUPLICATE_CODE_VENDOR   | Another vendor already exists with the provided <i>code_vendor</i> value.    |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                     |

**10.1.4. SET\_VENDOR\_TAX**

Function to enable or disable specific taxes for a vendor.

**Required Permissions**

- vendors\_write

**Input**

|        |        |          |   |
|--------|--------|----------|---|
| id     | int    | required | Vendor ID   |
| taxid  | int    | required | Tax ID - use function <i>list_vendor_tax</i> to get all the available tax IDs |
| status | string | required | Either “on” or “off” to enable/disable this menu option.                      |

**Output**

|     |     |             |
|-----|-----|-------------|
| int | int | Return code |
|-----|-----|-------------|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                     |

### 10.1.5. DELETE\_VENDOR

Deletes the vendor, provided that they are not locked. A vendor is “locked” if they have AP invoices or products assigned to them.

#### Required Permissions

- vendors\_write

#### Input

|    |     |          |           |
|----|-----|----------|-----------|
| id | int | required | Vendor ID |
|----|-----|----------|-----------|

#### Output

|            |     |  |
|------------|-----|--|
| returncode | int |  |
|------------|-----|--|

#### Failure Codes

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation.   |
| INVALID_ID              | Invalid ID/ID did not match to any records   |
| LOCKED                  | The vendor can not be deleted because they have various data entries made against them. You should set the <i>date_end</i> field instead to hide the vendor. |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.   |

## 11. API: accounts

### 11.1. accounts\_charts\_manage

|            |  |
|------------|--|
| Executable | api/accounts/charts_manage.php   |
| WSDL       | api/accounts/charts_manage.wsdl  |
| Summary    | Provides functions for displaying accounts/charts as well as adjusting or deleting them. |

#### 11.1.1. LIST\_CHART\_TYPE

Displays a list of all available chart types (from the *account\_chart\_type* table). This output is needed in order to do name and ID lookups of the different chart types to use when creating a new chart.

##### Required Permissions

- accounts\_charts\_view

##### Output – Multiple rows structured as:

|            |        |   |
|------------|--------|---|
| id         | int    | ID of the chart type  |
| value      | string | name of the chart type  |
| total_mode | string | total mode – tells your code how to total up transactions in this account.<br><br>If set to “debit”, then perform additional on debit transactions and subtraction on credit transactions. If set to “credit”, perform the alternative. |

##### Failure Codes

|               |                                      |
|---------------|--------------------------------------|
| ACCESS_DENIED | Invalid permissions or not logged in |
|---------------|--------------------------------------|

#### 11.1.2. LIST\_CHART\_MENU

Displays a list of all available chart menu options (from the *account\_chart\_menu* table). Any chart can have multiple menu options, but before they can be set you will need to call this function to get a list of all the options available.

##### Required Permissions

- accounts\_charts\_view

##### Output – Multiple rows structured as:

|             |        |  |
|-------------|--------|--|
| id          | int    | ID of the menu option – this is typically not used.        |
| value       | string | Name of the menu option.                                   |
| groupname   | string | Field to allow you to group similar menu options together. |
| description | string | Information about this option – suitable for a UI          |

##### Failure Codes

|               |                                      |
|---------------|--------------------------------------|
| ACCESS_DENIED | Invalid permissions or not logged in |
|---------------|--------------------------------------|

### 11.1.3. GET\_CHART\_DETAILS

Fetches all the details (excluding the menu options) for the selected chart.

#### Required Permissions

- accounts\_charts\_view

#### Input

|    |     |          |          |
|----|-----|----------|----------|
| id | int | required | Chart ID |
|----|-----|----------|----------|

#### Output

|                  |        |  |
|------------------|--------|--|
| code_chart       | int    | Chart code value – unlike other code values in ABS, this one can only be an integer. |
| description      | string | Human-readable label of the chart.   |
| chart_type       | int    | ID of the chart type value.  |
| chart_type_label | string | Human-readable label of the chart type.  |

#### Failure Codes

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when loading data.  |

### 11.1.4. GET\_CHART\_MENU

Displays a list of all menu options currently enabled by the selected chart. The output syntax is exactly the same as the *list\_chart\_menu* function.

#### Required Permissions

- accounts\_charts\_view

#### Input

|    |     |          |          |
|----|-----|----------|----------|
| id | int | required | Chart ID |
|----|-----|----------|----------|

#### Output – Multiple rows structured as:

|             |        |  |
|-------------|--------|--|
| id          | int    | ID of the menu option – this is typically not used.        |
| value       | string | Name of the menu option.                                   |
| groupname   | string | Field to allow you to group similar menu options together. |
| description | string | Information about this option – suitable for a UI          |

#### Failure Codes

|               |  |
|---------------|--|
| ACCESS_DENIED | Invalid permissions or not logged in   |
| INVALID_INPUT | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID    | Invalid ID/ID did not match to any records                                   |

### 11.1.5. SET\_CHART\_DETAILS

Takes the provided values and creates or updates a chart.

#### Required Permissions

- accounts\_charts\_write

#### Input

|             |        |          |   |
|-------------|--------|----------|---|
| id          | int    |          | Chart ID – leave blank to create a new chart.   |
| code_chart  | int    | required | Chart code – must be an integer.  |
| description | string | required | Human-readable label of the chart.  |
| chart_type  | int    | required | ID of the type for this chart – use <i>list_chart_type</i> function to get a list of available types. |

#### Output

|    |     |          |
|----|-----|----------|
| id | int | Chart ID |
|----|-----|----------|

#### Failure Codes

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| DUPLICATE_CODE_CHART    | A chart already exists with same code that you are trying to set.            |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                     |

### 11.1.6. SET\_CHART\_MENUOPTION

Function to allow menu options to be added/removed for the selected chart.

#### Required Permissions

- accounts\_charts\_write

#### Input

|           |        |          |   |
|-----------|--------|----------|---|
| id        | int    | required | Chart ID  |
| menuvalue | int    | required | Name of the menu option – use <i>list_chart_menu</i> function to get a list of available options. |
| status    | string | required | Either “on” or “off” to enable/disable this menu option.  |

#### Output

|    |     |          |
|----|-----|----------|
| id | int | Chart ID |
|----|-----|----------|

#### Failure Codes

|               |  |
|---------------|--|
| ACCESS_DENIED | Invalid permissions or not logged in   |
| INVALID_INPUT | Provided input unacceptable and caused problems with the input sanitisation. |



|                         |  |
|-------------------------|--|
| INVALID_ID              | Invalid ID/ID did not match to any records |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.   |

### 11.1.7. DELETE\_CHART

Deletes a chart, provided that the chart is not locked. A chart is automatically locked if any transactions, invoice items or quote items have been assigned to it.

#### Required Permissions

- accounts\_charts\_write

#### Input

|    |     |          |          |
|----|-----|----------|----------|
| id | int | required | Chart ID |
|----|-----|----------|----------|

#### Output

|            |     |  |
|------------|-----|--|
| returncode | int |  |
|------------|-----|--|

#### Failure Codes

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation.   |
| INVALID_ID              | Invalid ID/ID did not match to any records                                     |
| LOCKED                  | The chart can not be deleted because transactions have been posted against it. |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                       |

## 11.2. accounts\_gl\_manage

|            |   |
|------------|---|
| Executable | api/accounts/gl_manage.php                                    |
| WSDL       | api/accounts/gl_manage.wsdl                                   |
| Summary    | Provides functions for viewing and adjusting GL transactions. |

### 11.2.1. GET\_GL\_DETAILS

Fetches all the details (excluding the transaction rows) about the selected GL transaction.

#### Required Permissions

- accounts\_gl\_view

#### Input

|    |     |          |                |
|----|-----|----------|----------------|
| id | int | required | Transaction ID |
|----|-----|----------|----------------|

**Output**

|                  |        |   |
|------------------|--------|---|
| code_gl          | string | GL Transaction Code   |
| date_trans       | date   | Transaction date  |
| employeeid       | int    | ID of the employee who created the transaction                  |
| employeeid_label | string | Human-readable name of the employee who created the transaction |
| description      | string | Transaction description   |
| notes            | string | Additional space for notes about the transaction.               |

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when loading data.  |

**11.2.2. GET\_GL\_TRANS**

Returns all the transaction rows belong to the selected GL transaction. All transaction will have at least two rows, with no maximum limit to the number of permitted rows.

**Required Permissions**

- accounts\_gl\_view

**Input**

|    |     |          |                |
|----|-----|----------|----------------|
| id | int | required | Transaction ID |
|----|-----|----------|----------------|

**Output – Multiple rows structured as:**

|               |        |   |
|---------------|--------|---|
| id            | int    | ID of the transaction row – typically unused    |
| chartid       | int    | Name of the menu option.                        |
| chartid_label | string | Human-readable name of chart.                   |
| debit         | money  | Debit amount                                    |
| credit        | money  | Credit amount                                   |
| source        | string | Source of the transaction - “cheque, cash, etc” |
| description   | string | Information about the transaction               |

**Failure Codes**

|               |  |
|---------------|--|
| ACCESS_DENIED | Invalid permissions or not logged in   |
| INVALID_INPUT | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID    | Invalid ID/ID did not match to any records                                   |

**11.2.3. PREPARE\_GL\_DETAILS**

Because GL Transactions contain a number of transaction rows but must also be balanced, it is not possible to add or update a GL transaction in a single query. In order to perform updates to GL transactions, SOAP clients must call the

*prepare\_gl\_details* and *prepare\_gl\_addtrans* functions to define all the data desired, before saving it into the database with the *set\_gl\_save* function.

#### Required Permissions

- accounts\_gl\_write

#### Input

|                    |        |          |  |
|--------------------|--------|----------|--|
| code_gl            | string |          | GL Transaction Code  |
| date_trans         | date   | required | Date of the transaction  |
| employeeid         | int    | required | ID of the employee to add this transaction under.  |
| description        |        |          | Description of the transaction.  |
| description_useall | string |          | Set to “on” and the description set above will be used for all transaction rows, instead of having unique descriptions for each row. |
| notes              | string |          | Additional notes   |

#### Output

|            |     |          |
|------------|-----|----------|
| returncode | int | Not used |
|------------|-----|----------|

#### Failure Codes

|               |  |
|---------------|--|
| ACCESS_DENIED | Invalid permissions or not logged in   |
| INVALID_INPUT | Provided input unacceptable and caused problems with the input sanitisation. |

### 11.2.4. PREPARE\_GL\_ADDTRANS

This function creates new transaction rows for the GL transaction in memory, which then need to be saved with *set\_gl\_save* once all the rows have been defined.

#### Required Permissions

- accounts\_gl\_write

#### Input

|             |        |          |   |
|-------------|--------|----------|---|
| chartid     | int    | required | Chart ID  |
| credit      | int    | required | Credit amount                                   |
| debit       |        | required | Debit Amount                                    |
| source      | string |          | Source of the transaction - “cheque, cash, etc” |
| description | string |          | Information about the transaction               |

#### Important notes:

1. *Each transaction row can only contain either a credit OR a debit, it is not valid to set both a credit and debit amount in a single row.*
2. *The description option will only be used if the description\_useall field in the prepare\_gl\_details function is not set to “on”.*

#### Output

|            |     |           |
|------------|-----|-----------|
| returncode | int | Not used. |
|------------|-----|-----------|

**Failure Codes**

|                           |  |
|---------------------------|--|
| ACCESS_DENIED             | Invalid permissions or not logged in   |
| INVALID_INPUT             | Provided input unacceptable and caused problems with the input sanitisation.     |
| MISSING_FINANCIAL_VALUES  | Missing request data – either chartid, debit or credit                           |
| BOTH_CREDIT_AND_DEBIT_SET | Both the credit and debit values are set – this is invalid, only one can be set. |

**11.2.5. SET\_GL\_SAVE**

This function takes the data defined by the two functions above and then creates/updates a GL transaction. Be aware that all existing transaction rows will be replaced with the ones defined by *prepare\_gl\_addtrans*, so if you are just adding more rows, you need to define all the existing rows as well.

**Required Permissions**

- accounts\_gl\_write

**Input**

|    |     |          |  |
|----|-----|----------|--|
| id | int | required | ID of GL transaction – leave blank to create new transaction |
|----|-----|----------|--|

**Output**

|            |     |           |
|------------|-----|-----------|
| returncode | int | Not used. |
|------------|-----|-----------|

**Failure Codes**

|                         |   |
|-------------------------|---|
| ACCESS_DENIED           | Invalid permissions or not logged in  |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation.  |
| INVALID_ID              | Invalid ID/ID did not match to any records  |
| LOCKED                  | Transaction is locked and can not be adjusted   |
| DUPLICATE_CODE_GL       | The requested code_gl value is already used by another transaction. Either set to something else, or leave blank to get an automatically generated value. |
| UNBALANCED_TRANSACTIONS | The total debits do not match the total credits.  |
| MISSING_TRANS_DATA      | No valid transaction rows supplied.   |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.  |

**11.2.6. DELETE\_GL**

Deletes a GL transaction, provided that it is not locked. A GL transaction may be locked due to an administrator closing/locking off past financial years or enabling the autolock feature.

**Required Permissions**

- accounts\_gl\_write

**Input**

|    |     |          |                   |
|----|-----|----------|-------------------|
| id | int | required | GL Transaction ID |
|----|-----|----------|-------------------|

**Output**

|            |     |          |
|------------|-----|----------|
| returncode | int | Not Used |
|------------|-----|----------|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| LOCKED                  | The transaction is locked and can not be deleted.                            |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                     |

## 11.3. accounts\_taxes\_manage

|            |  |
|------------|--|
| Executable | api/accounts/taxes_manage.php                              |
| WSDL       | api/accounts/taxes_manage.wsdl                             |
| Summary    | Provides functions for managing different sales tax types. |

### 11.3.1. LIST\_TAXES

Returns a list of all the taxes configured in the billing system.

**Required Permissions**

- accounts\_taxes\_view

**Output – Multiple rows structured as:**

|               |        |  |
|---------------|--------|--|
| id            | int    | Tax ID   |
| name_tax      | string | Unique name of the tax                                     |
| taxrate       | int    | Tax rate (percentage)                                      |
| chartid       | string | ID of the account to file all transactions with this taxid |
| chartid_label | string | Human-readable name of the chart                           |
| taxnumber     | string | Tax number   |
| description   | string | Description of the tax                                     |

**Failure Codes**

|               |                                      |
|---------------|--------------------------------------|
| ACCESS_DENIED | Invalid permissions or not logged in |
|---------------|--------------------------------------|

### 11.3.2. GET\_TAX\_DETAILS

Fetch all the details of the selected tax.

**Required Permissions**

- accounts\_taxes\_view

**Input**

|    |     |          |        |
|----|-----|----------|--------|
| id | int | required | Tax ID |
|----|-----|----------|--------|

**Output**

|               |        |  |
|---------------|--------|--|
| name_tax      | string | Unique name of the tax                                     |
| taxrate       | float  | Tax rate (percentage)                                      |
| chartid       | int    | ID of the account to file all transactions with this taxid |
| chartid_label | string | Human-readable name of the chart                           |
| taxnumber     | string | Tax number   |
| description   | string | Description of the tax                                     |

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when loading data.  |

**11.3.3. SET\_TAX\_DETAILS**

Takes the provided values and creates or updates a tax.

**Required Permissions**

- accounts\_taxes\_write

**Input**

|                          |        |          |  |
|--------------------------|--------|----------|--|
| id                       | int    |          | Tax ID – leave blank to create a new tax.  |
| name_tax                 | string | required | Unique name of the tax   |
| taxrate                  | float  | required | Tax rate (percentage)  |
| chartid                  | int    | required | ID of the account to file all transactions with this taxid   |
| taxnumber                | string | required | Tax number   |
| description              | string |          | Description of the tax   |
| autoenable_tax_customers | string |          | Set this to “on” and the tax will be enabled for all customers – this should only be used when creating a new tax. |
| autoenable_tax_vendors   | string |          | Set this to “on” and the tax will be enabled for all vendors – this should only be used when creating a new tax.   |

**Output**

|    |     |        |
|----|-----|--------|
| id | int | Tax ID |
|----|-----|--------|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| DUPLICATE_NAME_TAX      | Another tax already exists with the name you are trying to set.              |
| INVALID_CHARTID         | The supplied chartid does not exist.   |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                     |

#### 11.3.4. DELETE\_TAX

Deletes a tax provided that it isn't locked. Taxes are locked where there are transactions made using this tax.

##### Required Permissions

- accounts\_taxes\_write

##### Input

|    |     |          |        |
|----|-----|----------|--------|
| id | int | required | Tax ID |
|----|-----|----------|--------|

##### Output

|            |     |
|------------|-----|
| returncode | int |
|------------|-----|

##### Failure Codes

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| LOCKED                  | The tax can not be deleted because transactions have been posted against it. |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                     |

## 11.4. accounts\_invoices\_manage

|            |   |
|------------|---|
| Executable | api/accounts/invoices_manage.php  |
| WSDL       | api/accounts/invoices_manage.wsdl   |
| Summary    | Provides functions to view, create, update and delete invoices as well as invoice items. (both AR and AP) |

#### 11.4.1. GET\_INVOICE\_ID\_FROM\_CODE

Returns the true database ID of an invoice based on the supplied code\_invoice and invoicetype values.

##### Required Permissions

- accounts\_ar\_view or accounts\_ap\_view

##### Input

|              |        |          |                              |
|--------------|--------|----------|------------------------------|
| code_invoice | string | required | Invoice ID/Code              |
| invoicetype  | string | required | Invoice Type - “ar” or “ap”. |

**Output**

|    |     |                            |
|----|-----|----------------------------|
| id | int | Invoice's true database ID |
|----|-----|----------------------------|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in                                     |
| INVALID_INVOICE_TYPE    | Invalid invoice type – must be either “ar” or “ap”.                      |
| INVALID_INVOICE         | Requested invoice does not exist – check that the code_invoice is valid. |
| INVALID_INPUT           | Problem with supplied data – check that data matches the field type.     |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                 |

**11.4.2. GET\_INVOICE\_DETAILS**

Fetches all the details of the selected invoice.

**Required Permissions**

- accounts\_ar\_view or accounts\_ap\_view

**Input**

|             |        |          |                              |
|-------------|--------|----------|------------------------------|
| id          | int    | required | Invoice ID                   |
| invoicetype | string | required | Invoice Type - “ar” or “ap”. |

**Output**

|                    |        |  |
|--------------------|--------|--|
| locked             | int    | Locked status – (0 for unlocked, 1 for locked)   |
| orgid              | int    | Either the customer or vendor ID (depending on invoice type)   |
| orgid_label        | string | Human-readable version of the above.   |
| employeeid         | int    | Employee who created the invoice.  |
| employeeid_label   | string | Human-readable employee name.  |
| dest_account       | int    | Destination account/chart for the invoice charges – either <i>accounts receivables</i> or <i>accounts payables</i> . |
| dest_account_label | string | Human-readable account/chart name  |
| code_invoice       | string | Invoice ID/Code  |
| code_ordernumber   | string | Order Number   |
| code_ponumber      | string | PO Number  |
| date_due           | date   | Date invoice is due to be paid   |
| date_trans         | date   | Date of invoice  |
| date_create        | date   | Date invoice was added to database (non-changeable)  |
| date_sent          | date   | (AR only) Date invoice was sent to customer  |
| sentmethod         | string | (AR only) Method used to send invoice to customer  |



|              |        |   |
|--------------|--------|---|
| amount_total | money  | Total/Final amount on the invoice               |
| amount_tax   | money  | Tax only amount of the invoice                  |
| amount       | money  | Total of line items on invoice excluding taxes. |
| amount_paid  | money  | Amount paid by customers                        |
| notes        | string | Details/comments about the invoice.             |

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in                                 |
| INVALID_INVOICE_TYPE    | Invalid invoice type – must be either “ar” or “ap”.                  |
| INVALID_INVOICE         | Requested invoice does not exist – check that the ID is valid.       |
| INVALID_INPUT           | Problem with supplied data – check that data matches the field type. |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                             |

**11.4.3. GET\_INVOICE\_ITEMS**

Returns all the invoice line items (standard, product and time items) but does not return tax or payment items.

**Required Permissions**

- accounts\_ar\_view or accounts\_ap\_view

**Input**

|             |        |          |                              |
|-------------|--------|----------|------------------------------|
| id          | int    | required | Invoice ID                   |
| invoicetype | string | required | Invoice Type - “ar” or “ap”. |

**Output – Multiple rows structured as:**

|                   |        |   |
|-------------------|--------|---|
| itemid            | int    | ID of item  |
| type              | string | Item type - “standard”, “product” or “time”   |
| customid          | int    | <b>standard:</b> unused<br><b>product:</b> ID of product<br><b>time:</b> ID of product used for hour billing blocks |
| customid_label    | string | Human-readable version of the above   |
| chartid           | int    | ID of the account/chart for the item.   |
| chartid_label     | string | Human-readable account/chart name.  |
| timegroupid       | int    | (time items only) ID of the time group used by the item.  |
| timegroupid_label | string | (time items only) Human-readable name of the time group.  |
| quantity          | int    | Number of units.  |
| units             | string | <b>product:</b> custom field<br><b>time:</b> always set to “hours”  |
| amount            | money  | Total amount to charge for item (price * quantity)  |
| price             | money  | Price per unit  |
| description       | string | Description of transaction.   |

|          |       |  |
|----------|-------|--|
| taxes    | LIST  | Multiple rows of tax settings (see table below)    |
| discount | float | Discount % (only exists for product or time items) |

**“taxes” row data:**

The taxes row data is only produced for “standard” invoice item types and shows what taxes have been enabled or disabled for the selected invoice.

|             |        |                         |
|-------------|--------|-------------------------|
| taxid       | int    | ID of the tax           |
| taxid_label | string | Human-readable tax name |
| status      | string | Either “on” or “off”    |

**Failure Codes**

|                      |  |
|----------------------|--|
| ACCESS_DENIED        | Invalid permissions or not logged in                                 |
| INVALID_INVOICE_TYPE | Invalid invoice type – must be either “ar” or “ap”.                  |
| INVALID_INVOICE      | Requested invoice does not exist – check that the ID is valid.       |
| INVALID_INPUT        | Problem with supplied data – check that data matches the field type. |

**11.4.4. GET\_INVOICE\_TAXES**

Returns a list of all tax items on the invoice. Tax items are not normally added or edited directly, but are generated by the tax options assigned to the products and standard items added to the invoice.

**Required Permissions**

- accounts\_ar\_view or accounts\_ap\_view

**Input**

|             |        |          |                              |
|-------------|--------|----------|------------------------------|
| id          | int    | required | Invoice ID                   |
| invoicetype | string | required | Invoice Type - “ar” or “ap”. |

**Output – Multiple rows structured as:**

|             |        |                                   |
|-------------|--------|-----------------------------------|
| itemid      | int    | ID of the tax item on the invoice |
| taxid       | string | ID of the tax                     |
| taxid_label | int    | Human-readable name of the tax.   |
| amount      | string | Amount of tax                     |

**Failure Codes**

|                      |  |
|----------------------|--|
| ACCESS_DENIED        | Invalid permissions or not logged in                                 |
| INVALID_INVOICE_TYPE | Invalid invoice type – must be either “ar” or “ap”.                  |
| INVALID_INVOICE      | Requested invoice does not exist – check that the ID is valid.       |
| INVALID_INPUT        | Problem with supplied data – check that data matches the field type. |

### 11.4.5. GET\_INVOICE\_PAYMENTS

Returns a list of all payments made against the invoice.

#### Required Permissions

- accounts\_ar\_view or accounts\_ap\_view

#### Input

|             |        |          |                              |
|-------------|--------|----------|------------------------------|
| id          | int    | required | Invoice ID                   |
| invoicetype | string | required | Invoice Type - “ar” or “ap”. |

#### Output – Multiple rows structured as:

|               |        |   |
|---------------|--------|---|
| itemid        | int    | ID of item  |
| date_trans    | string | ID of the tax                                       |
| chartid       | int    | ID of the account/chart the tax amount is filed to. |
| chartid_label | string | Human-readable name of the account/chart.           |
| amount        | int    | Amount paid   |
| source        | string | Source of the payment (eg: “cheque”, “cash”, etc)   |
| description   | string | Details about the payment.                          |

#### Failure Codes

|                      |  |
|----------------------|--|
| ACCESS_DENIED        | Invalid permissions or not logged in                                 |
| INVALID_INVOICE_TYPE | Invalid invoice type – must be either “ar” or “ap”.                  |
| INVALID_INVOICE      | Requested invoice does not exist – check that the ID is valid.       |
| INVALID_INPUT        | Problem with supplied data – check that data matches the field type. |

### 11.4.6. SET\_INVOICE\_DETAILS

Takes the provided values and creates or updates a tax.

#### Required Permissions

- accounts\_taxes\_write

#### Input

|                  |        |          |  |
|------------------|--------|----------|--|
| id               | int    |          | Tax ID – leave blank to create a new tax.  |
| invoicetype      | string | required | Invoice Type - “ar” or “ap”.   |
| locked           | int    |          | Locked status – (0 for unlocked, 1 for locked)   |
| orgid            | int    |          | Either the customer or vendor ID (depending on invoice type)   |
| employeeid       | int    |          | Employee who created the invoice.  |
| dest_account     | int    |          | Destination account/chart for the invoice charges – either <i>accounts receivables</i> or <i>accounts payables</i> . |
| code_invoice     | string |          | Invoice ID/Code  |
| code_ordernumber | string |          | Order Number   |
| code_ponumber    | string |          | PO Number  |

|             |        |  |   |
|-------------|--------|--|---|
| date_due    | date   |  | Date invoice is due to be paid                      |
| date_create | date   |  | Date invoice was added to database (non-changeable) |
| date_sent   | date   |  | (AR only) Date invoice was sent to customer         |
| sentmethod  | string |  | (AR only) Method used to send invoice to customer   |
| notes       | string |  | Details/comments about the invoice.                 |

**Output**

|    |     |            |
|----|-----|------------|
| id | int | Invoice ID |
|----|-----|------------|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INVOICE_TYPE    | Invalid invoice type – must be either “ar” or “ap”.                          |
| INVALID_INVOICE         | Requested invoice does not exist – check that the ID is valid.               |
| INVALID_INPUT           | Problem with supplied data – check that data matches the field type.         |
| LOCKED                  | Invoice is locked and can not be adjusted                                    |
| DUPLICATE_CODE_INVOICE  | The requested <i>code_invoice</i> value is already taken by another invoice. |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                     |

**11.4.7. SET\_INVOICE\_ITEM\_STANDARD**

Takes the provided values and creates or updates a standard invoice item.

**Required Permissions**

- accounts\_ar\_write or accounts\_ap\_write

**Input**

|             |        |          |   |
|-------------|--------|----------|---|
| id          | int    | required | Invoice ID  |
| invoicetype | string | required | Invoice Type - “ar” or “ap”.                            |
| itemid      | int    |          | Item ID – leave blank to add a new item to the invoice. |
| chartid     | int    | required | Account/Chart to bill the item too.                     |
| amount      | money  | required | Amount for the item.                                    |
| description | string |          | Description field.                                      |

**Output**

|        |     |         |
|--------|-----|---------|
| itemid | int | Item ID |
|--------|-----|---------|

**Failure Codes**

|                      |  |
|----------------------|--|
| ACCESS_DENIED        | Invalid permissions or not logged in                           |
| INVALID_INVOICE_TYPE | Invalid invoice type – must be either “ar” or “ap”.            |
| INVALID_INVOICE      | Requested invoice does not exist – check that the ID is valid. |

|                         |  |
|-------------------------|--|
| INVALID_INPUT           | Problem with supplied data – check that data matches the field type. |
| INVALID_ITEMID          | Supplied <i>itemid</i> does not exist.                               |
| LOCKED                  | Invoice is locked and can not be adjusted                            |
| UNEXPECTED_PREP_ERROR   | Unexpected failure when preparing item data.                         |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                             |

#### 11.4.8. SET\_INVOICE\_ITEM\_TAX

Used to enable/disable the specified tax for the selected standard item. Note: This feature **only** works for standard type invoice items, attempting to use it with any other item type will trigger an error.

##### Required Permissions

- accounts\_ar\_write or accounts\_ap\_write

##### Input

|             |        |          |   |
|-------------|--------|----------|---|
| id          | int    | required | Invoice ID                                      |
| invoicetype | string | required | Invoice Type - “ar” or “ap”.                    |
| itemid      | int    | required | Item ID   |
| taxid       | int    | required | Tax ID to adjust.                               |
| status      | string | required | Either “on” or “off” to enable/disable the tax. |

##### Output

|        |     |         |
|--------|-----|---------|
| itemid | int | Item ID |
|--------|-----|---------|

##### Failure Codes

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in                                 |
| INVALID_INVOICE_TYPE    | Invalid invoice type – must be either “ar” or “ap”.                  |
| INVALID_INVOICE         | Requested invoice does not exist – check that the ID is valid.       |
| INVALID_INPUT           | Problem with supplied data – check that data matches the field type. |
| INVALID_ITEMID          | Supplied <i>itemid</i> does not exist.                               |
| LOCKED                  | Invoice is locked and can not be adjusted                            |
| UNSUPPORTED_ITEM_TYPE   | Attempted to use function on a non-standard item.                    |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                             |

#### 11.4.9. SET\_INVOICE\_ITEM\_PRODUCT

Takes the provided values and creates or updates a product invoice item.

##### Required Permissions

- accounts\_ar\_write or accounts\_ap\_write

##### Input

|    |     |          |            |
|----|-----|----------|------------|
| id | int | required | Invoice ID |
|----|-----|----------|------------|

|             |        |          |   |
|-------------|--------|----------|---|
| invoicetype | string | required | Invoice Type - “ar” or “ap”.                            |
| itemid      | int    |          | Item ID – leave blank to add a new item to the invoice. |
| price       | money  | required | Price per unit.   |
| quantity    | int    | required | Number of units.  |
| units       | string | required | Unit label/type   |
| productid   | int    | required | ID of the product.                                      |
| description | string |          | Description field.                                      |
| discount    | float  |          | Discount amount   |

**Output**

|        |     |         |
|--------|-----|---------|
| itemid | int | Item ID |
|--------|-----|---------|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in                                 |
| INVALID_INVOICE_TYPE    | Invalid invoice type – must be either “ar” or “ap”.                  |
| INVALID_INVOICE         | Requested invoice does not exist – check that the ID is valid.       |
| INVALID_INPUT           | Problem with supplied data – check that data matches the field type. |
| INVALID_ITEMID          | Supplied <i>itemid</i> does not exist.                               |
| LOCKED                  | Invoice is locked and can not be adjusted                            |
| UNEXPECTED_PREP_ERROR   | Unexpected failure when preparing item data.                         |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                             |

**11.4.10. SET\_INVOICE\_ITEM\_TIME**

Takes the provided values and creates or updates a time group invoice item.

**Required Permissions**

- accounts\_ar\_write only

**Input**

|             |        |          |   |
|-------------|--------|----------|---|
| id          | int    | required | Invoice ID  |
| invoicetype | string | required | Invoice Type - “ar” or “ap”.  |
| itemid      | int    |          | Item ID – leave blank to add a new item to the invoice.   |
| price       | money  | required | Price per hour of billable work   |
| productid   | int    | required | ID of the product to bill the hours as. This product should be some product setup to collect all consulting work. |
| timegroupid | int    | required | ID of the time group to use.  |
| description | string |          | Description field.  |
| discount    | float  |          | Discount amount   |

**Output**

|        |     |         |
|--------|-----|---------|
| itemid | int | Item ID |
|--------|-----|---------|

**Failure Codes**

|                               |   |
|-------------------------------|---|
| ACCESS_DENIED                 | Invalid permissions or not logged in  |
| INVALID_INVOICE_TYPE          | Invoice type must be “ar” only – other invoice types do not support the time item.      |
| NOT_AVAILABLE_FOR_INVOICE_USE | See above.  |
| INVALID_INVOICE               | Requested invoice does not exist – check that the ID is valid.                          |
| INVALID_INPUT                 | Problem with supplied data – check that data matches the field type.                    |
| INVALID_ITEMID                | Supplied <i>itemid</i> does not exist.  |
| INVALID_TIMEGROUPID           | Supplied <i>timegroupid</i> is not available for use in this invoice or does not exist. |
| LOCKED                        | Invoice is locked and can not be adjusted   |
| UNEXPECTED_PREP_ERROR         | Unexpected failure when preparing item data.  |
| UNEXPECTED_ACTION_ERROR       | Unexpected failure when processing data.  |

**11.4.11. SET\_INVOICE\_OVERRIDE\_TAX**

Provides the ability to override the automatically calculated tax amount on invoices. This feature exists mainly to handle vendors who send AP invoices with incorrect rounding (eg: \$0.01 mistakes).

**Required Permissions**

- accounts\_ar\_write or accounts\_ap\_write

**Input**

|             |        |          |                              |
|-------------|--------|----------|------------------------------|
| id          | int    | required | Invoice ID                   |
| invoicetype | string | required | Invoice Type - “ar” or “ap”. |
| itemid      | int    | required | Item ID                      |
| amount      | money  | required | Amount of tax                |

**Output**

|        |     |         |
|--------|-----|---------|
| itemid | int | Item ID |
|--------|-----|---------|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in                                 |
| INVALID_INVOICE_TYPE    | Invalid invoice type – must be either “ar” or “ap”.                  |
| INVALID_INVOICE         | Requested invoice does not exist – check that the ID is valid.       |
| INVALID_INPUT           | Problem with supplied data – check that data matches the field type. |
| INVALID_ITEMID          | Supplied <i>itemid</i> does not exist.                               |
| LOCKED                  | Invoice is locked and can not be adjusted                            |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                             |

### 11.4.12. SET\_INVOICE\_PAYMENT

Takes the provided values and creates or updates a product invoice item.

#### Required Permissions

- accounts\_ar\_write or accounts\_ap\_write

#### Input

|             |        |          |   |
|-------------|--------|----------|---|
| id          | int    | required | Invoice ID  |
| invoicetype | string | required | Invoice Type - “ar” or “ap”.                            |
| itemid      | int    |          | Item ID – leave blank to add a new item to the invoice. |
| date_trans  | date   | required | Data of payment   |
| chartid     | int    | required | Source/Destination account for payment                  |
| amount      | money  | required | Amount paid.  |
| source      | string |          | Source of the payment (eg: “cheque”, “cash”, etc)       |
| description | string |          | Details about the payment.                              |

#### Output

|        |     |         |
|--------|-----|---------|
| itemid | int | Item ID |
|--------|-----|---------|

#### Failure Codes

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in                                 |
| INVALID_INVOICE_TYPE    | Invalid invoice type – must be either “ar” or “ap”.                  |
| INVALID_INVOICE         | Requested invoice does not exist – check that the ID is valid.       |
| INVALID_INPUT           | Problem with supplied data – check that data matches the field type. |
| INVALID_ITEMID          | Supplied <i>itemid</i> does not exist.                               |
| LOCKED                  | Invoice is locked and can not be adjusted                            |
| UNEXPECTED_PREP_ERROR   | Unexpected failure when preparing item data.                         |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                             |

### 11.4.13. DELETE\_INVOICE

Deletes an invoice provided that it isn't locked.

#### Required Permissions

- accounts\_ar\_write or accounts\_ap\_write

#### Input

|             |        |          |                              |
|-------------|--------|----------|------------------------------|
| id          | int    | required | Invoice ID                   |
| invoicetype | string | required | Invoice Type - “ar” or “ap”. |

#### Output



|            |     |  |
|------------|-----|--|
| returncode | int |  |
|------------|-----|--|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in                                 |
| INVALID_INVOICE_TYPE    | Invalid invoice type – must be either “ar” or “ap”.                  |
| INVALID_INVOICE         | Requested invoice does not exist – check that the ID is valid.       |
| INVALID_INPUT           | Problem with supplied data – check that data matches the field type. |
| LOCKED                  | Invoice is locked and can not be deleted.                            |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                             |

**11.4.14. DELETE\_INVOICE\_ITEM**

Deletes a single item of any type (standard, product, time, tax or payment) from an invoice. The invoice ID and type do not need to be supplied to this function, since they can be queries from the itemid.

**Required Permissions**

- accounts\_ar\_write or accounts\_ap\_write

**Input**

|        |     |          |            |
|--------|-----|----------|------------|
| itemid | int | required | ID of item |
|--------|-----|----------|------------|

**Output**

|            |     |  |
|------------|-----|--|
| returncode | int |  |
|------------|-----|--|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in                                 |
| INVALID_INPUT           | Problem with supplied data – check that data matches the field type. |
| INVALID_ITEMID          | Supplied <i>itemid</i> does not exist.                               |
| LOCKED                  | Invoice is locked and can not be adjusted                            |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                             |

## 12. API: Products

### 12.1. products\_manage

|            |   |
|------------|---|
| Executable | api/products/products_manage.php          |
| WSDL       | api/products/products_manage.wsdl         |
| Summary    | Provides functions for managing products. |

#### 12.1.1. GET\_PRODUCT\_DETAILS

Fetch all the details of the selected product.

##### Required Permissions

- products\_view

##### Input

|    |     |          |            |
|----|-----|----------|------------|
| id | int | required | Product ID |
|----|-----|----------|------------|

##### Output

|                     |        |   |
|---------------------|--------|---|
| code_product        | string | Product Code  |
| name_product        | string | Product name  |
| units               | string | Unit measure (5 chars)                                    |
| details             | string | General details/description about the product.            |
| price_cost          | money  | Price product is purchased at.                            |
| price_sale          | money  | Price product is sold at.                                 |
| date_current        | date   | When the quantity & pricing information was last updated. |
| quantity_instock    | int    | Number of units in stock.                                 |
| quantity_vendor     | int    | Number of units in stock by the vendor.                   |
| vendorid            | int    | ID of the vendor supplying the product.                   |
| vendorid_label      | string | Human-readable name of vendor supplying the product.      |
| code_product_vendor | string | Vendor's internal code for the product.                   |
| account_sales       | int    | Chart/Account ID that sales are assigned to.              |
| account_sales_label | string | Human-readable label for selected account.                |
| discount            | float  | Discount % to apply to both price_cost and price_sale     |

##### Failure Codes

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when loading data.  |

### 12.1.2. GET\_PRODUCT\_TAXES

Returns a list of all taxes attached to the selected product, including whether it is a fixed or automatic tax.

#### Required Permissions

- products\_view

#### Input

|    |     |          |            |
|----|-----|----------|------------|
| id | int | required | Product ID |
|----|-----|----------|------------|

#### Output – Multiple rows structured as:

|               |        |  |
|---------------|--------|--|
| itemid        | int    | ID of the tax item assigned to the product.                            |
| taxid         | string | ID of the tax  |
| taxid_label   | int    | Human-readable name of the tax.  |
| manual_option | string | If set to “on”, the tax will be fixed to the “manual_amount” provided. |
| manual_amount | int    | Amount of tax charged.   |
| description   | string | Human-readable note specific to this particular tax & product.         |

#### Failure Codes

|               |  |
|---------------|--|
| ACCESS_DENIED | Invalid permissions or not logged in                                 |
| INVALID_ID    | Invalid ID/ID did not match to any records                           |
| INVALID_INPUT | Problem with supplied data – check that data matches the field type. |

### 12.1.3. SET\_PRODUCT\_DETAILS

Takes the provided values and creates or updates a product.

#### Required Permissions

- products\_write

#### Input

|                     |        |          |   |
|---------------------|--------|----------|---|
| id                  | int    |          | Product ID – leave blank to create a new product.         |
| code_product        | string | required | Product Code  |
| name_product        | string | required | Product name  |
| units               | string |          | Unit measure (5 chars)                                    |
| details             | string |          | General details/description about the product.            |
| price_cost          | money  |          | Price product is purchased at.                            |
| price_sale          | money  |          | Price product is sold at.                                 |
| date_current        | date   |          | When the quantity & pricing information was last updated. |
| quantity_instock    | int    |          | Number of units in stock.                                 |
| quantity_vendor     | int    |          | Number of units in stock by the vendor.                   |
| vendorid            | int    |          | ID of the vendor supplying the product.                   |
| code_product_vendor | string |          | Vendor's internal code for the product.                   |

|               |       |          |   |
|---------------|-------|----------|---|
| account_sales | int   | required | Chart/Account ID that sales are assigned to.          |
| discount      | float |          | Discount % to apply to both price_cost and price_sale |

**Output**

|    |     |            |
|----|-----|------------|
| id | int | Product ID |
|----|-----|------------|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| DUPLICATE_CODE_PRODUCT  | The requested <i>code_product</i> is already in use.                         |
| DUPLICATE_NAME_PRODUCT  | The requested <i>name_product</i> is already in use.                         |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                     |

**12.1.4. SET\_PRODUCT\_TAX**

Takes the provided values and creates or updates a tax item belonging to the selected product.

**Required Permissions**

- products\_write

**Input**

|               |        |          |   |
|---------------|--------|----------|---|
| id            | int    | required | Product ID  |
| itemid        | int    |          | Tax item to adjust – leave blank to add a new tax to the product. |
| taxid         | int    | required | ID of the tax to use  |
| manual_option | string |          | Set to “1” to make this tax a fixed amount rather than automatic. |
| manual_amount | money  |          | When using the manual_option, set this to the amount of tax       |
| description   | string |          | Human-readable description for the tax item                       |

**Output**

|        |     |             |
|--------|-----|-------------|
| itemid | int | Tax item ID |
|--------|-----|-------------|

**Failure Codes**

|                |  |
|----------------|--|
| ACCESS_DENIED  | Invalid permissions or not logged in   |
| INVALID_ID     | Invalid product ID                     |
| INVALID_ITEMID | Supplied <i>itemid</i> does not exist. |

**12.1.5. DELETE\_PRODUCT**

Deletes the selected product.

**Required Permissions**

- products\_write

**Input**

|    |     |          |            |
|----|-----|----------|------------|
| id | int | required | Product ID |
|----|-----|----------|------------|

**Output**

|            |     |  |
|------------|-----|--|
| returncode | int |  |
|------------|-----|--|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| LOCKED                  | The product can not be deleted because it has been used in invoicing.        |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                     |

**12.1.6. DELETE\_PRODUCT\_TAX**

Deletes a particular tax item from the selected product.

**Required Permissions**

- products\_write

**Input**

|        |     |          |                        |
|--------|-----|----------|------------------------|
| id     | int | required | Product ID             |
| itemid | int | required | Tax item ID to delete. |

**Output**

|            |     |  |
|------------|-----|--|
| returncode | int |  |
|------------|-----|--|

**Failure Codes**

|                         |  |
|-------------------------|--|
| ACCESS_DENIED           | Invalid permissions or not logged in   |
| INVALID_INPUT           | Provided input unacceptable and caused problems with the input sanitisation. |
| INVALID_ID              | Invalid ID/ID did not match to any records                                   |
| UNEXPECTED_ACTION_ERROR | Unexpected failure when processing data.                                     |

## 13. Sample Code

A number of different sample scripts and programs have been provided which use the SOAP APIs to talk to the billing system which you can modify to use for your own applications.

Most of the same code is licensed under a permissive MIT-style software license, however it can vary, so always check the headers of any files before you use them in your own applications.

### 13.1. Service Collectors

Refer to the service usage collectors manual for information about the sample code supplied for service usage collectors.

### 13.2. Testsuite Scripts

A number of scripts are provided which are used to test the APIs during product development and testing. You can use these scripts as sample code or just to verify correct operation of the API in the event of your own code experiencing problems.

The following is a list of all the test scripts and the APIs that they test. Read the headers of the test scripts for details on the specific actions they perform.

|   |   |
|---|---|
| testsuite/hr/staff_manage.php                 | authentication, hr_staff_manage         |
| testsuite/customers/test_customer_details.php | authentication, customers_manage        |
| testsuite/vendors/test_vendor_details.php     | authentication, vendors_manage          |
| testsuite/accounts/test_charts.php            | authentication, accounts_charts_manage  |
| testsuite/accounts/test_gl.php                | authentication, accounts_gl_manage      |
| testsuite/accounts/test_taxes.php             | authentication, accounts_taxes_manage   |
| testsuite/accounts/test_ar_invoice.php        | authentication, account_invoices_manage |
| testsuite/accounts/test_ap_invoice.php        | authentication, account_invoices_manage |
| testsuite/accounts/test_products.php          | authentication, products_manage         |