#### Open ERP interface for Interchange

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### **Shop Administration**

- Admin
- ► ERP

#### **ERP Solutions**

- Medical Business Solutions Navision
- Wegatrade Lewia
- Calevo Impuls

#### **ERP Solutions**

- Dataident
- AdvanceID

#### **OpenERP**

- ► Ecoservice Interchange ERP Connect
- XMLRPC API for Interchange

## **Export**

- Categories
- Products and Inventory
- Product images
- Price lists
- Partners

# **Import**

Orders

#### **XMLRPC API**

- Magento API http://www.magentocommerce.com/ wiki/doc/webservices-api/api/
- Dancer
- Nitesi Database Schema

```
https://metacpan.org/module/Nitesi::
Database::Schema
```

RPC::XML

#### Workflow

- Create instance of RPC::XML::Server
- Add functions for our API
- Dispatch requests
- Mapping values
- Return result

#### RPC::XML

```
use RPC::XML qw/:types/;
use RPC::XML::Server;

# force encoding to UTF-8
$RPC::XML::ENCODING = 'utf-8';
```

### RPC::XML::Server Object

```
my % fault table = (2 \Rightarrow [2 \Rightarrow '\%s'],
                        100 \Rightarrow [100 \Rightarrow '\%s'],
                        107 \Rightarrow [107 \Rightarrow '\%s'],
);
$rpc = RPC::XML::Server->new(no http => 1,
     fault table => \%fault_table);
# login function
$rpc->add function({name => 'login', code => \&login});
```

## RPC\_STRING

```
sub login {
    my (@args) = @;
    my ($session id);
       (account->login(username => $args[0],
                        password \Rightarrow $args[1])) {
        $session id = session->id;
        return RPC STRING($session id);
    else {
        return $rpc->server fault(2, 'Access denied');
```

### Dispatch

```
prefix '/api/rpc/0.001';
any '/' => sub {
    $xml = request->body;
    $rpc ||= setup();
    eval {
        $resp = $rpc->dispatch($xml);
    };
```

### Dispatch

```
if ($resp && $resp->is fault) {
    content type 'text/xml';
    return $resp->as string;
if (ref($resp)) {
    return $resp->as string;
return $@;
status 400;
```

#### **Functions**

- ▶ 51 functions
- product.list
- product.info
- product.create
- product.update
- product.delete

### Session Wrapper

```
sub api call {
    my $api sub = shift;
    return sub {
        mv ($session id, @args) = @;
           (session check($session id)) {
            return $api sub ->(@args);
        };
        return $rpc->server fault(2, 'Access denied');
    };
```

### **Create Category**

```
sub category create {
   my ($parent, $data) = @;
   my ($cat, %input);
   %input = _reverse_map('category', $data);
    if ($parent) {
        $input{parent} = $parent;
    $cat = shop navigation->create(%input);
    return $cat->code:
```

## **Update Category**

```
sub category update {
   my ($code, $data) = @;
   my (%args);
    unless (shop navigation($code)->load) {
        return $rpc->server fault(102, 'Category not exist
   %args = reverse map('category', $data);
   my $p = shop navigation ($code) -> update(%args);
    return $p->code:
```

## Mapping

```
category => {code => 'category id',
    parent => 'parent id',
    uri => 'url path',
    scope => undef,
    priority => undef,
    type => undef,
    level => 'level'.
    entered => 'created at',
    inactive => {name => 'is active',
                 filter => 'invert'.
       => [qw/available sort by default sort by
              include in menu/],
```

#### Experiences

- Works
- Stable
- RPC::XML needs some love

## Moving to OpenERP

Falk Neubert ecoservice

www.ecoservice.de

#### The End

Slides: http://www.linuxia.de/talks/eic2013/nitesi-api-beamer.pdf