

The purpose of this document is to explain how to invoke SOAP Web services from a web portal in PHP.

The portal gives you access to your data, such as orders or customer information in real-time. You do not need to share large files across networks or via email. Because the data stays in the application, not saved out to an external server, it is more secure. Remote employees like sales professions can not only view data, but they can also create new data such as sales orders from any computer with internet access via a browser.

You can create the portal using SOAP web services functionality and WampServer® is a Windows web development environment that allows you to create web applications with Apache2, PHP, and a MySQL database. In addition, PhpMyAdmin allows you to easily manage your databases. [Source: wampserver.com].

#### **Audience**

This document is intended for experienced Enterprise Management users with administrator level permissions who may or may not have prior experience with publishing web services. There is also a section specifically for developers who have advanced coding and web services knowledge.

# **Contents**

REQUIREMENTS		
Install Microsoft Visual C++ 2012 Redistributable (x64)	4	
BUILD THE PORTAL	5	
Install and configure WampServer	5	
Configure the server and the pool of Web services Set up the Syracuse Web server Configure the WEB services pool	10 10 10	
Install and configure the PHP Web portal  Download the PHP web portal project files  Configure the portal  Install the application patch	12 12 13 14	
Publish the Web service Cas des erreurs dans la trace	<b>16</b> 16	
USE THE PORTAL	17	
Access the portal	17	
Read an order		
Create an order	18	
FOR DEVELOPERS	21	
List the orders	22	
Read an order		
Create an order while logged in		

# Requirements

#### To build the PHP web portal, you need the following:

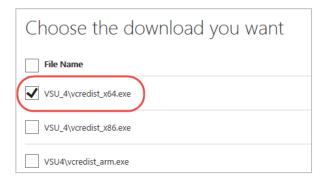
- Windows 64 bit operating system
- Update 9.0.2 or above
- Microsoft Visual C++ 2012 Redistributable (x64)

# Install Microsoft Visual C++ 2012 Redistributable (x64)

From <a href="https://www.microsoft.com/en-US/download/details.aspx?id=30679">https://www.microsoft.com/en-US/download/details.aspx?id=30679</a>

Select your language from the pull-down menu and click **Download**.

There are multiple files available for this download. When prompted, select **VSU\_4/vcredist\_x64.exe**.



# **Build the portal**

# **Install and configure WampServer**

You can download WampServer from <a href="https://www.wampserver.com">www.wampserver.com</a>.



On the homepage, scroll down and download this one:

#### **WAMP SERVER 64 BITS (X64) 3.0.6**

The version that is actually downloaded is at least 3.1.4

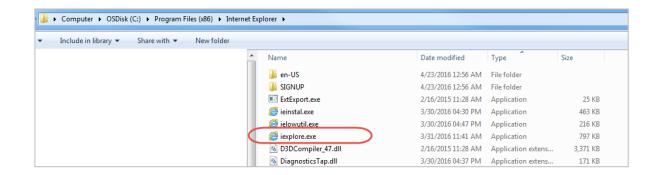
By default, WampServer installs in **C:\wamp64** but it is best to choose **c:\sage\wamp**, or a different folder.

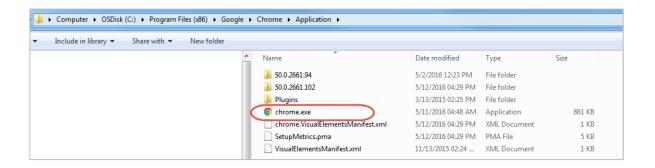
Next, you need to choose a default browser such as Chrome or IE.

Navigate to the EXE file on your computer.

Select the file and click Open.

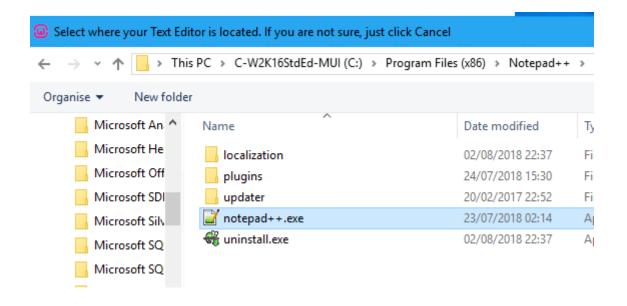
Examples for IE and Chrome are shown below.





Then you can choose a default text Editor.

Example Notepad + + (32bits)



Then on your desktop, this program allows to start, stop or configure the server Wamp



#### Launch it.

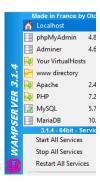
The notification icon changes color and must become Green.



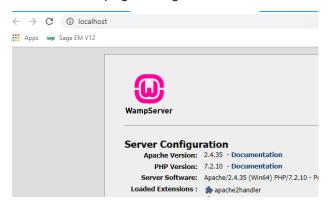


Launch the Wamp server page by clicking on this Icon.

Then select Localhost.

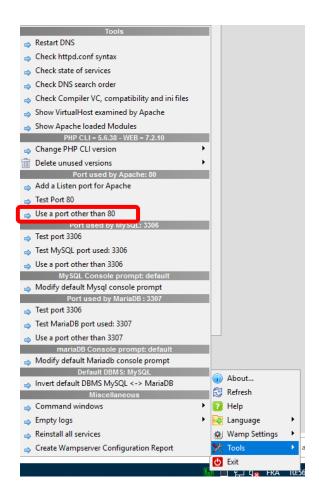


You then have the next page if all goes Well.

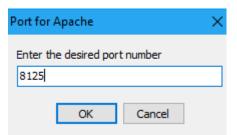


It is necessary to change the default HTTP port, which is **80**. For example, you can change it to **8125** or another port.

#### Right click on the Wamp icon then Tools then use a port other than 80



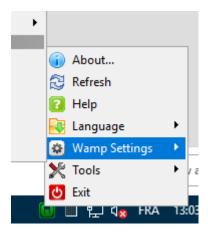
Enter the new port: 8125



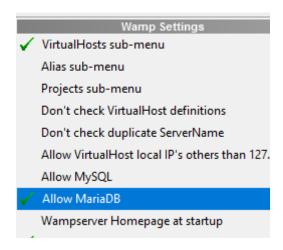
Verify that the page is running on this new port.

The Wamp server includes both MySQL and MariaDB Databases.

To have more resources on our machine, you can stop these two bases.



Deselect Allow MySql and Allow MariaDB



This PHP portal does not use any of these databases

# Configure the server and the pool of Web services

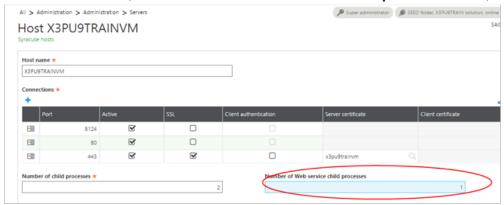
## Set up the Syracuse Web server

In Enterprise Management, complete follow these steps:

**Note**: The Host name etc. are examples. You might have other names.

Open Administration > Administration > Servers > **Hosts**. Click the edit icon next to your host name.

On the next screen, in the Number of Web service child processes field, enter 1.



## Configure the WEB services pool

Open Classic SOAP pools configuration from Administration > Administration > Web Services > Classis SOAP pools configuration

Click Create soapClassicPool.

Complete the following fields:

Alias: Enter the name of the pool to be used in the web service call.

Initialization size: Enter 1.

Represents the number of clients (per node.js process) that are initialized during the pool startup.

Maximum size: Enter 1.

Represents the maximum number of clients (per node.js process) that can be started on this pool.

Auto start: check box

If checked, the pool starts when the Syracuse server starts.

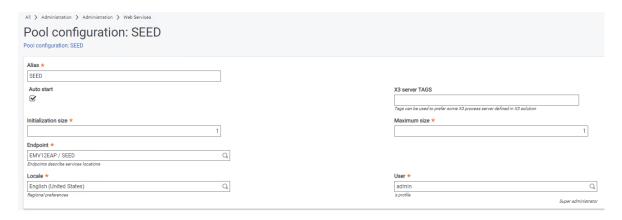
Server TAGS: Leave blank.

This field is best used by Developers with classic SOAP pool configuration.

**Endpoint:** Enter the endpoint (folder) to be used for web service requests.

**Locale:** Enter your language and location. (In this example, English.)

User: Enter the user name. In this case Admin.

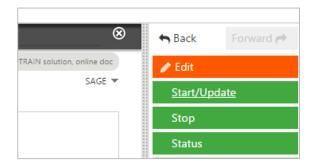


To continue setting up the PHP web portal, you need to start the pool.

After you create the pool based on the previous steps, it displays in the list of soapClassicPools.

Click the name of the pool you just created.

From the Actions panel, click **Start/Update**.



# Install and configure the PHP Web portal

If you have not already done so, start the web service pool you just created. See steps in the previous section for details.

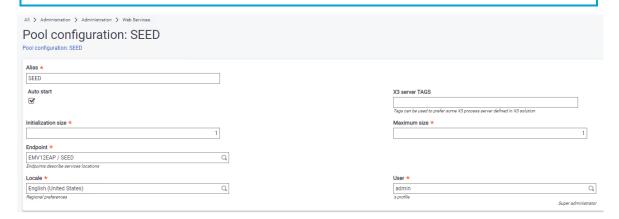
### Download the PHP web portal project files

The project file for the PHP web portal is available from GitHub. The project file is open to everyone, so you do not need a GitHub account. The download file contains everything you need to create and configure the portal including the application patch for the YOSOH web service.

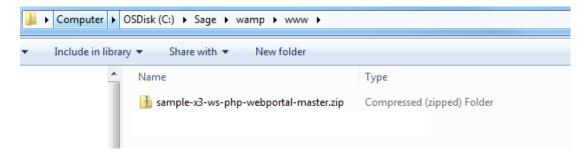
From GitHub https://github.com/Sage-ERP-X3/sample-x3-ws-php-webportal, click Clone or Download.

If you are logged in to GitHub, you have the option Clone or Download without logged in

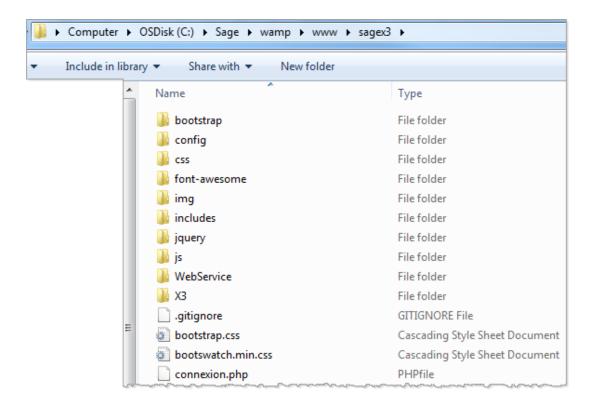
Be sure to download the ZIP file.



Save the sample-x3-ws-php-webportal-master.zip file to C:\Sage\wamp\www.



Extract all files to C:\Sage\wamp\www\sagex3.



## Configure the portal

Next, you need to configure the portal to communicate with Enterprise Management.

In the folder C:\Sage\wamp\www\sagex3\config, open the Config.php file.

The following fields should match what you entered when you configured your web service pool in Enterprise Management:

```
WSDL : Your server URL

CODE_LANG

POOL_ALIAS
```

WS\_ORDER YOSOH The name of the Sales orders Web services.

WEB\_SITE\_LOGIN and WEB\_SITE\_PASSWD represent the credentials you will share with those who will be accessing these web services via the web portal.

```
public static $PASSWORD = "...";
public static $POOL_ALIAS = "SEED";
public static $REQUEST_CONFIG = "adxwss.optreturn=XML";
public static $WS_ORDER = "YOSOH";

public static $WEB_SITE_LOGIN = "websage";
public static $WEB_SITE_PASSWD = "websage";
}
}
```

**Important!** Do not change the punctuation and formatting.

From the WampServer menu, Restart All Services.

Enter the URL for your portal in your default browser. In this example the URL is <a href="http://x3pu9trainvm:8125/sagex3/">http://x3pu9trainvm:8125/sagex3/</a>

This is the name of Syracuse server and the number was configured in httpd.conf.

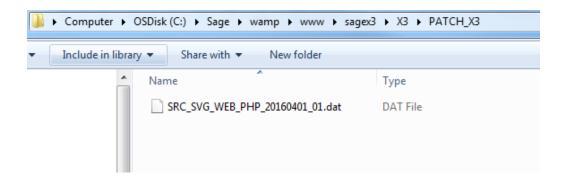
This is an example of what your portal could look like.



### Install the application patch

You need to install the patch containing the YOSOH web services. The file was downloaded in the ZIP file from GitHub.

The name of file is **SRC\_SVG\_WEB\_PHP\_YYYYMMDD\_NN.dat**. It is in the following directory: C:\Sage\wamp\www\X3\PATCH\_X3\V12.



**Important!** You can only install the patch on the SEED folder, not the application folder.

The patch contains the following objects:

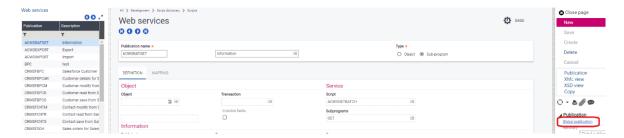
Туре	Objects	Comments
ACV	YSWPH	Activity code PHP Web portal
EXE	SUBSLC	Generate Sales entry transaction
TRT	YSWPHPSTOCK	Script Available stock
ASU	YSWPHPSTOCK~STOCK	Sub program YSWPHPSTOCK~STOCK Available stock
AWE	YOSOH	Web service YOSOH Sales orders
AWE	YSSTOCKPHP	Web service YSSTOCKPHP Available stock
SLT	STRTYP=2 & STRNUM='WS'	Sales entry transaction WS: Web service for the web service YOSOH

### **Publish the Web service**

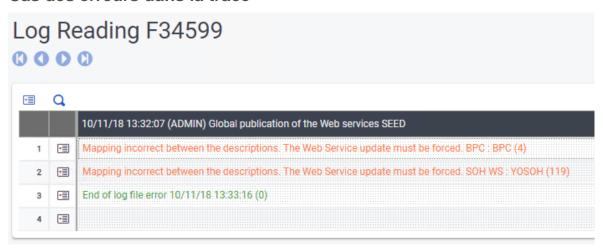
After installing the patch with the web service, you need to publish the service. This validates the web service so that it is visible.

In the application, navigate to **Development > Script dictionary > Scripts** and open **Web services** (GESAWE).

Cliquez sur **Publication globale**.



#### Cas des erreurs dans la trace



Seulement le web service YOSOH est utilisé.

Dans la même fonction aller sur ce web service **YOSOH** et cliquer sur le bouton **Publication.** 



# Use the portal

Now that the web service has been published, you can begin accessing application data in real-time via the portal.

**Note**: WampServer needs to be running to access the portal and the application services.

# **Access the portal**

Using the default browser that you set earlier, enter the URL for your web portal.

**Note**: For this example, the URL is http://x3pu9trainvm:8125/sagex3.

Click **CONNECTION** and log in with the username and password you set up when configured the portal.

**Important!** You do not need to be logged into the Portal to view the orders.

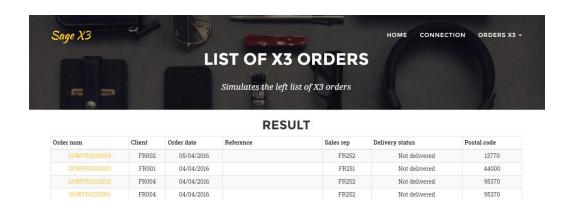
Remember, because this web service is based on YOSOH for sales information, this portal provides access to orders in Enterprise Management.

From the ORDERS X3 pull-down menu, select LIST OF ORDERS.

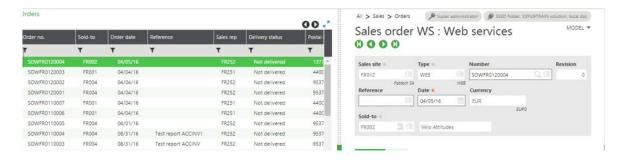




You can now see a list of current orders in your application instance.



When you look at this data in Enterprise Management, you can see that it is the same.

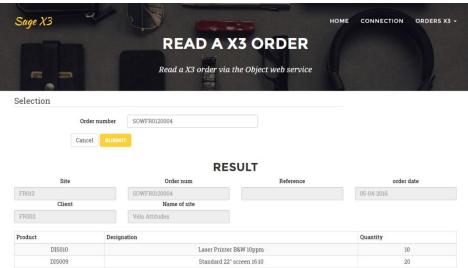


### Read an order

You can read orders by selecting from the list or by selecting **READ AN ORDER** from the **ORDERS X3** menu and entering the order number. For either method, you do not need to be logged in to the portal.

Click the order number for one of the orders in the list. This example uses order SOWFR0120004.

Clicking the order number or enter the order number provides detailed information about that order.



You can create an order in Enterprise Management using the portal. You need to be logged in to the portal to do this.



Remember, you defined the login and password for your portal in Config.php.

Open the file Config.php

```
need to connect to create an order; don't need to login to view orders

<?php

class Config {
    ...

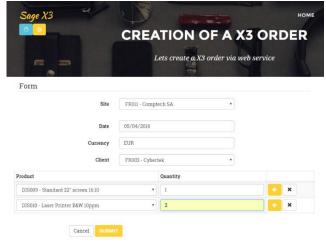
    public static $WEB_SITE_LOGIN = "websage";
    public static $WEB_SITE_PASSWD = "websage";
}
</pre>
```

**Note**: To create a new order, you need to be logged into the Portal.

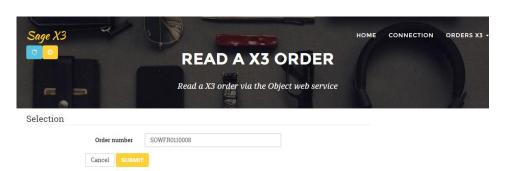
From the ORDERS X3 pull-down menu, select CREATE AN ORDER.

Enter the relevant information as you would if you were working directly in your application

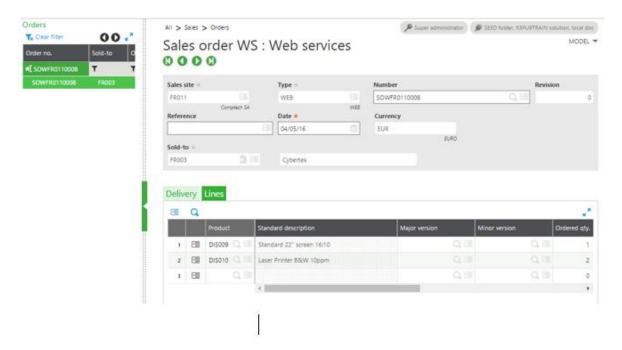
and click Submit.



When the order has been created, click the oder number to view details.



In the WS entry transaction, you can see the same order:

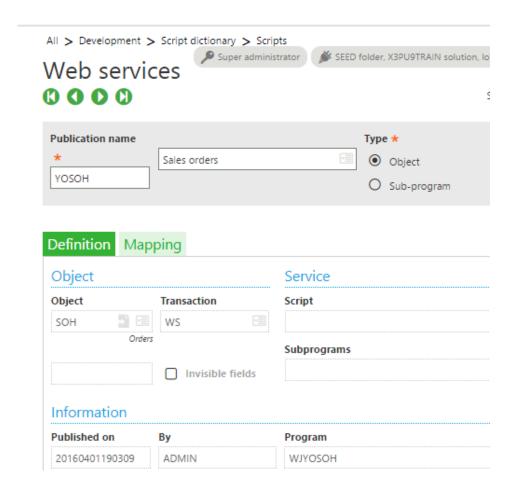


# For developers

This section provides details specifically addressed to developers who have an advanced knowledge of coding and web services. The YOSOH web service will still be used as an example.

This section describes how to initiate calls without using an external application, but using the Enterprise Management test tool. You can also see the PHP or C# codes used to call the same web services.

This web service is defined as an object with the WS optimized transaction.



## List the orders

#### In the PHP code:

Remember, the name of the Order web service is SOH.

```
Config::$WS_ORDER → YSOH
In /sagex3/page_soh_list.php
   <?php
                                                           require_once
   ('WebService/models/Order.php');
                                                           try {
      $order = new Order ();
      echo ($order->showListe ());
                                                           } catch ( SoapFault
   $e ) {
                                                           ToolsWS::printError
   ( "Web service not available" );
                                                           }
   ?>
   In /sagex3/WebService/models/Order.php
   function showListe() {
             $WS = "*";
      $this->CAdxResultXml = $this->query ( Config::$WS_ORDER, $WS,100);
      }
```

#### In the application tool:

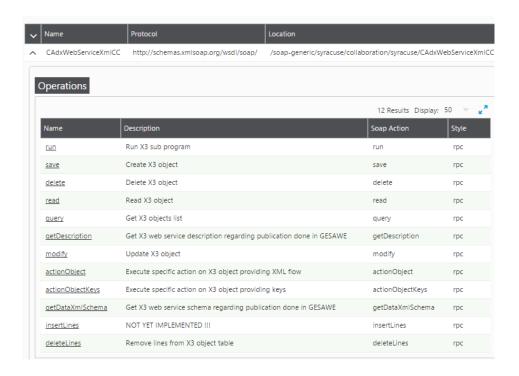
Navigate to Administration > Administration > Web Services and select Classic SOAP Web Services.

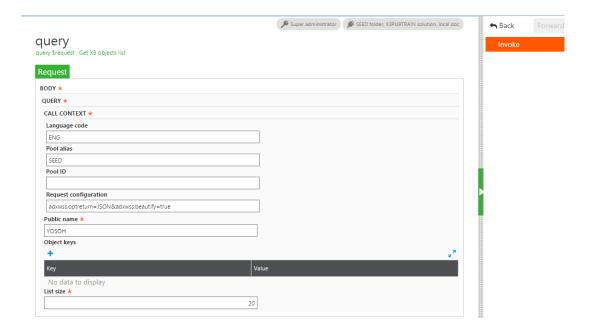
From the list of SOAP Generic Web Services, select this web service.

On the next screen, click the down arrow to see the list of Operations.



From the list of Operations, click query.





The request configuration

adxwss.optreturn=JSON&adxwss.beautify=true
means

adxwss.optreturn=JSON

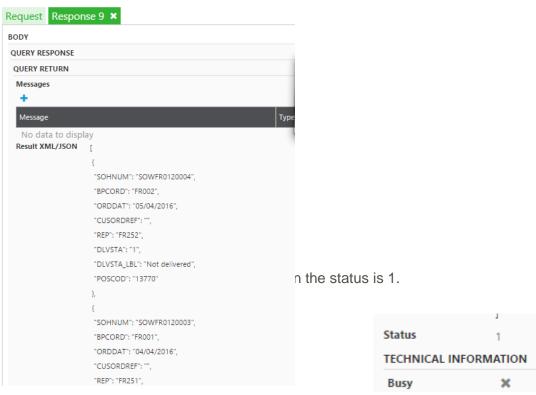
The output data format is JSON or XML, where

adxwss.beautify=true

This action improves the presentation as shown below.

#### query

query \$request : Get X3 objects list



0= ERROR

## Read an order

#### In the PHP code:

```
In /sagex3/page_soh_read.php
```

```
...
echo
($order->showOne ( $sohnum ));
...
...
```

?>

#### In /sagex3/WebService/models/Order.php

```
function showOne($crit) {
    ...
    $cle = new CAdxParamKeyValue ();
    $cle->key = "SOHNUM";
    $cle->value = $crit;

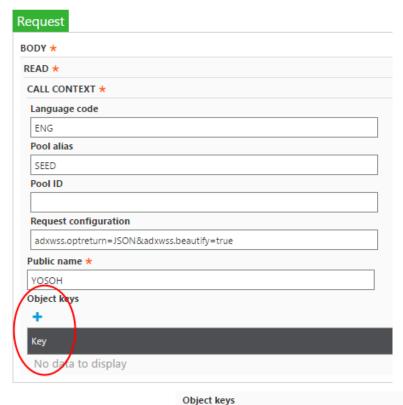
    $this->CAdxResultXml = $this->read
(Config::$WS_ORDER,Array($cle));
    ...
}
```

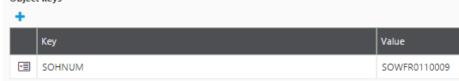
#### In the application tool:

You must call the Read operation with the key of the order.

# read

read \$request : Read X3 object





#### After selecting Invoke

```
Message

No data to display

Result XML/JSON {

"SOHO_1": {

"SALFCY": "FR011",

"ZSALFCY": "Comptech SA",

"SOHTYP": "WEB",
```

# Create an order while logged in

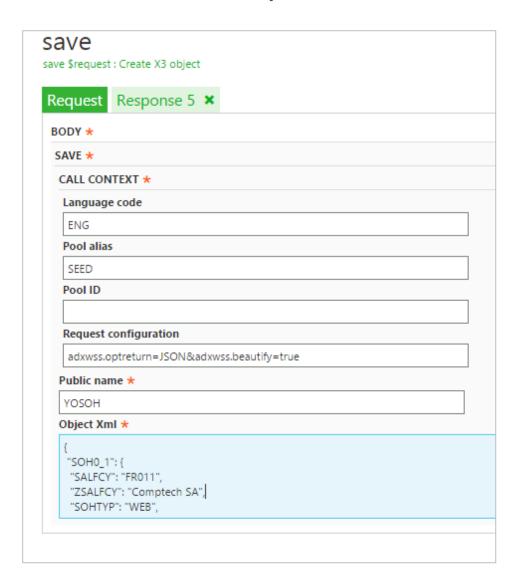
## Using the application tool:

At first you can copy the result of the JSON data from the read:

```
{
  "SOH0_1": {
    "SALFCY": "FR011",
    "ZSALFCY": "Comptech SA",
    "SOHTYP": "WEB",
    "ZSOHTYP": "WEB",
    "SOHNUM": " SOWFR0110009 ",
    "REVNUM": "0",
    "CUSORDREF": "",
    "ORDDAT": "20160406",
    "CUR": "EUR",
...
```

Replace the line: "SOHNUM": " SOWFR0110009 ", with "SOHNUM": " ",  $\,$ 

In the tool, enter this data into the Object Xml field.



#### Invoke

```
Result XML/JSON {

"SOH0_1": {

"SALFCY": "FR011",

"ZSALFCY": "Comptech SA",

"SOHTYP": "WEB",

"ZSOHTYP": "WEB",

"SOHNUM": "SOWFR0110012",
```

The code for the order that was created is in the JSON result: The status have the value 1.

```
Status 1
TECHNICAL INFORMATION
```

#### PHP code:

### In /sagex3/page\_soh\_create\_action.php

### In /sagex3/WebService/models/Order.php

```
function create($WS) {
    $this->CAdxResultXml = $this->save ( Config::$WS_ORDER, $WS );
    ...
}
```

