Exchange Calendar Integration

Using Exchange Web Services and SOAP to integrate UGA Exchange Calendar Services
Detailed documentation is available for Exchange Web Services XML and SOAP interaction
Problem: HHSOM had a web calendar system dependent on SOAP interaction with Oracle Calendar

Solution: Create PHP Classes to interact with live@edu Exchange Server
Sample SOAP Request
Soap Request:

<?xml version="1.0" encoding="UTF-8"?>
  <SOAP-ENV:Header>
    <ns1:RequestServerVersion Version="Exchange2010"/>
    <ns1:ExchangeImpersonation>
      <ns1:ConnectingSID>
        <ns1:SmtpAddress>res.MUSIC.music_edge_hall@uga.edu</ns1:SmtpAddress>
      </ns1:ConnectingSID>
    </ns1:ExchangeImpersonation>
  </SOAP-ENV:Header>
  <SOAP-ENV:Body>
    <ns2:CreateItem SendMeetingInvitations="SendToNone">
      <ns2:SavedItemFolderId>
        <ns1:DistinguishedFolderId Id="calendar"/>
      </ns2:SavedItemFolderId>
      <ns2:Items>
        <ns1:CalendarItem>
          <ns1:Subject>Violin Vitriol</ns1:Subject>
          <ns1:Body BodyType="HTML">&lt;p&gt;Some HTML goes here.&lt;/p&gt;</ns1:Body>
          <ns1:Categories>
            <ns1:String>Recital</ns1:String>
          </ns1:Categories>
          <ns1:Start>2011-04-25T19:21:00</ns1:Start>
          <ns1:End>2011-04-25T19:45:00</ns1:End>
          <ns1:IsAllDayEvent>false</ns1:IsAllDayEvent>
          <ns1:LegacyFreeBusyStatus>Busy</ns1:LegacyFreeBusyStatus>
          <ns1:Location>Edge Hall</ns1:Location>
        </ns1:CalendarItem>
      </ns2:Items>
    </ns2:CreateItem>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
Sample SOAP Response
Soap Response:

<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ServerVersionInfo MajorVersion="14" MinorVersion="1" MajorBuildNumber="225" MinorBuildNumber="42" Version="Exchange2010_SP1"
  </s:Header>
    <m:CreateItemResponse xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
 xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
      <m:ResponseMessages>
        <m:CreateItemResponseMessage ResponseClass="Success">
          <m:ResponseCode>NoError</m:ResponseCode>
          <m:Items>
            <t:CalendarItem>
              <t:Id Id="AAMkADY2NzU3M2MxLTg2YzgtNDImYS1hMTliLTk4OWU1MGE5YWQyZgBGAAAAADp5R6nwj0tQoaU15e
+TxAjbWdQWboKmKz7Usdb7ABWkAAAAAEoHAABkj+CtGDUtQo9w4SDY/" XpAAAJBKph="/"
            </t:CalendarItem>
          </m:Items>
        </m:CreateItemResponseMessage>
      </m:ResponseMessages>
    </m:CreateItemResponse>
  </s:Body>
</s:Envelope>
PHP Class
<?php

/* ExchangeClient class. */

@author Joe Willey
@author Riley Dutton

The following pages are especially helpful:

to use the class: $exchangeClient = new ExchangeClient($exchangeUser, $exchangePass, "https://yourserver.uga.edu/exchange/Services.wsdl.php?srv=".$srv, false, $mailbox);
you may need to change the way Services.wsdl.php works to suit your storage/retrieval scheme for exchange servers.
where $exchangeUser, $exchangePass are authorized to access the mailbox.
Services.wsdl.php sets up the .wsdl description, and you must pass the EwsUrl to it somehow through the URL.
the next parameter can be set to true or false, depending upon whether you want to save debugging xml info or not.
the last parameter is the actual mailbox you want to query, $mailbox
Here are the functions available:

create an event: $exchangeClient->create_event($subject, $start, $end, $location, $category, $body_text, $bodyType='HTML', $isallday=false)

$subject is the exchange subject, $start is a mysql formatted date in local time, $end is a mysql formatted date in local time,
$category is the category for the event, $body_text is the text for the body of the event, and $isallday should be left as the default value.
$bodyType can be HTML, TEXT or BEST

get a calendar item given the Id and ChangeKey: $exchangeClient->get_item($Id, $ChangeKey)
delete a calendar item given the Id and ChangeKey: $exchangeClient->delete_item($Id, $ChangeKey)

find calendar items in a folder given the start and end dates and the BaseShape: $exchangeClient->find_item($start_date, $end_date, $BaseShape)

get the response code of a query: $exchangeClient->getResponseMessages('ResponseCode')

A successful query should return 'NoError'

To get the results from a find_item or get_item query: $exchangeClient->getItems();

The result will be an array (get_item) or an array of arrays(find_item) with the following parameters:

$myItem['ItemId']['Id']
$myItem['ItemId']['ChangeKey']
$myItem['Category']
$myItem['Subject']
$myItem['Start']
$myItem['End']
$myItem['Location']
$myItem['LegacyFreeBusyStatus']
$myItem['IsAllDayEvent']
$myItem['Duration']
$myItem['Body'] - returned from get_item query
$myItem['BodyType'] - returned from get_item query

find out if debugging is turned on: $exchangeClient->getDebug()

find out how many items returned from find_item query: $exchangeClient->getResponseMessages('TotalItemsInView')

get the last xml request: $exchangeClient->getLastRequest()

get the last xml response: $exchangeClient->getLastResponse()

get the last error: $exchangeClient->getLastError();

get the Id and ChangeKey from a successful create_event request: $exchangeClient->getId() $exchangeClient->getChangeKey()

I used the following code sources to create this class:

http://www.howtoforge.com/talking-soap-with-exchange
https://github.com/rileydutton/Exchange-Web-Services-for-PHP
I used Riley Dutton’s class extensively – it’s unrestricted open source, and the license is here:
https://github.com/rileydutton/Exchange-Web-Services-for-PHP/blob/master/LICENSE
I used the connection classes, and I created the get_item, delete_item and find_item functions.
The only original function here is the create_item function, which I substantially altered.
I also added debugging functionality, especially the ability to save and output the original

Thursday, August 4, 2011
/**
 * Initialize the class.
 * @access public
 * @param string $user (the username of the mailbox account you want to use on the Exchange server)
 * @param string $pass (the password of the account)
 * @param string $wsdl, explained further in the Services.wsdl.php file
 * @param boolean $debug, tells the client whether to save xml for debugging
 * @param string $impersonate. The mailbox name you want to impersonate: e.g. res.MUSIC.music_edge_hall@uga.edu
 * @return void
 */
function __construct($user, $pass, $wsdl="Services.wsdl", $debug=false, $impersonate=NULL) {
   // set username, password and location of wsdl file
   $this->user = $user;
   $this->pass = $pass;
   $this->impersonate = $impersonate;
   // set debug variable
   $this->setDebug($debug);
   // create the soap client and set the user name and password
   if ($this->getDebug() == true){
      // set up the client to save xml and headers for debugging
      $this->client = new ExchangeNTLMSoapClient($this->wsdl, array('trace' => TRUE));
   } else {
      // set up the client without debugging information
      $this->client = new ExchangeNTLMSoapClient($this->wsdl);
   }
   // set the user name, password, and impersonate status in the client
   $this->client->user = $this->user;
   $this->client->password = $this->pass;
   $this->client->impersonate = $this->impersonate;
}
Create a calendar event. Exchange expects ISO date format, but this is handled by internal function format.time, which also handles the UTC time offset.

@access public
@param string $subject
@param string $start
@param string $end
@param string $location
@param string $category
@param string $body_text - can be html or plain text
@param string $bodyType - Text, Rest or HTML
@param bool $isAllDay. (Default: false)
@return bool $success (true if the message was created, false if there was an error)

// convert both dates to UTC time
$this->setStart_date($this->format_time($start));
$this->setEnd_date($this->format_time($end));

// set the stream
$this->setup();

// set xpath parameters for the CreateItem operation
// to add or alter parameters, check the documentation here: http://msdn.microsoft.com/en-us/library/aa564755(v=exchg.140).aspx
$CreateItem->SendMeetingInvitations = "SendToOneCopy";
$CreateItem->SendItemFolderID->DistinguishedFolderID-ID = "calendar";
$CreateItem->Items->CalendarItem->Subject = $subject;
$CreateItem->Items->CalendarItem->Start = $this->getStart_date();
$CreateItem->Items->CalendarItem->End = $this->getEnd_date();
$CreateItem->Items->CalendarItem->IsAllDayEvent = $isAllDay;
$CreateItem->Items->CalendarItem->LegacyFreeBusyStatus = "Busy";
$CreateItem->Items->CalendarItem->ReminderIsSet = false;
$CreateItem->Items->CalendarItem->Location = $location;
$CreateItem->Items->CalendarItem->Categories = $category;
$CreateItem->Items->CalendarItem->Body[0] = $body_text;
$CreateItem->Items->CalendarItem->Body["BodyType"] = $bodyType;

try {
// attempt to send the soap request to Exchange and get the response
$response = $this->client->CreateItem($CreateItem);

// save the xml if debug is set to true
if ($this->getDebug() == true) {
    // save the xml response for debugging
    $this->setLastRequest($this->client->xml);
    $this->setLastResponse($this->client->getLastResponse());
}

if($response->ResponseMessages->CreateItemResponseMessage->ResponseCode == 'NoError') {
    // the calendar item was created with no errors
    // set the id and change key
    $this->id = $response->ResponseMessages->CreateItemResponseMessage->Items->CalendarItem->Id->Id;
    $response->ResponseMessages->CreateItemResponseMessage->Items->CalendarItem->Id->ChangeKey;
    $this->setResponseMessages('ResponseCode', $response->ResponseMessages->CreateItemResponseMessage->ResponseCode);
    $this->setLastRequest($this->client->xml);
    $this->setLastResponse($this->client->getLastResponse());
    // close the stream and disconnect from the server
    $this->teardown();
    return true;
} else {
    // we successfully connected to exchange and got a response, but there was an error
    $response->ResponseMessages->CreateItemResponseMessage->ResponseCode;
    $response->ResponseMessages->CreateItemResponseMessage->ResponseCode;
    $this->setLastRequest($this->client->xml);
    $this->setLastResponse($this->client->getLastResponse());
    // close the stream and disconnect from the server
    $this->teardown();
    return false;
}
}

// soap error - set the last error variable
// $this->setLastRequest($this->client->xml);
// $this->setLastResponse($this->client->getLastResponse());
// close the stream and disconnect from the server
// $this->teardown();
return false;

// end try / catch
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Autodiscover
Autodiscover Request

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Autodiscover Response

<?xml version="1.0" encoding="utf-8"?>
    <Display Name>Music Classroom 308</Display Name>
    <Legacy DN>/ou=ExchangeAdministrative Group (FYD1BH2F35PDLT)/cn=Configuration/cn=Services/cn=CH1PRD0202.mailbox.outlook.com</Legacy DN>
    <Deployment ID>34139086-4d94-45da-9e8c-f9bfc5d37a74</Deployment ID>
  </Response>
</Autodiscover>
Thick and Web Clients
iCal - Set Up Calendar
Outlook - Set Up Calendar

- **Default Account**
  - **Mac Mail**
  - **Uga (Exchange Account)**

**Personal Information**
- **Full name**: Joe Willey
- **E-mail address**: jwilley@uga.edu

**Authentication**
- **Method**: User Name and Password
- **User name**: jwilley@uga.edu
- **Password**: ********

Learn about Exchange account settings

Advanced...
Test event shows on Outlook
Outlook Event Window

Subject: test event
Location:
Starts: 10/4/2011 10:15 AM
Ends: 10/4/2011 11:15 AM
Duration: 1 Hour
Also shows on Web Calendar
Event is deleted from all calendars at once