

## Custom Code Hooks Starter Guide

The Custom Code Hooks add-on provides the ability to have your own custom PHP code executed inside of NolaPro® when users perform various actions in the system. You can simply write a function that you want to perform some additional task and then assign it to a predefined hook (also called an event or trigger point). When the hook is reached in NolaPro it will call the function(s) that you registered with the event. A trigger point might be when a customer record is modified, an order added, or payroll hours entered.

Next, we'll walk through an example, so you can see how this is done. We will create our own function that responds to the customer update trigger inside NolaPro. Let's say we have a customer relationship management (CRM) program that we want to keep up to date with any NolaPro changes.

1. Create a folder called *custom* inside your nolapro folder. All of the files that you want included and executed should go inside this folder. Only files directly under the custom folder will be automatically included. You can create subdirectories inside the custom folder if you'd like to create files that won't be automatically included inside NolaPro, but that may be referenced by your hook functions.
2. Create a file inside custom called *customer\_updater.php* (it can have any filename that you'd like actually).
3. Open the customer\_updater.php file in an editor.
4. Start a function definition called *custom\_customer\_updater*. (We recommend the convention of beginning your custom functions with the word custom to avoid conflicts with any NolaPro functions.) Add a parameter called \$params which is an associative array and will contain relevant data from the event.

```
function custom_customer_updater($params) {  
  
}
```

5. Add the line var\_dump(\$params) to get an idea of the data that will be passed in.

```
function custom_customer_updater($params) {  
    var_dump($params);  
}
```

6. At the top of the customer\_updater.php page, above the custom\_customer\_updater function, add a line to register your new function with the customer update event. At the end of this document is a list of all of the triggers that are available for tying custom functions to. The customer update one that we'll need is called *ar.customer.update*.

```
register_custom('ar.customer.update', 'custom_customer_updater');
```

So the formula is register\_custom('event.name', 'my\_function'). One event can have several

functions attached and one function can apply to several events. You could also have a function that emails you when a customer record is changed. You'd register it alongside the one above with:

```
register_custom('ar.customer.update', 'custom_email_me');
```

7. Open up NolaPro and go to Orders -> Customer Add/Update and update a customer. You should see the result of `var_dump` which displays the contents of the `$params` array. It may look something like the following:

```
array(7) { ["id"]=> string(4) "1209" ["table"]=> string(8) "customer" ["customerid"]=> string(4) "1209" ["name"]=> string(16) "Noguska Test" ["event"]=> string(18) "ar.customer.update" ["userid"]=> string(2) "32" ["companyid"]=> string(1) "1" }
```

For the majority of events the array elements *id* and *table* will be set. These point to the key database record that was added, updated or deleted during the event. Also with each event the `userid` and `companyid` are passed. You can access these values in your custom function by using `$params['id']`, `$params['name']`, etc.

8. Just displaying these values isn't helpful of course, so the next thing you might want to do is to retrieve the entire customer record from the NolaPro database so that you can send the info to your other system. Nolapro handles database interaction by utilizing the ADOdb database abstraction layer. You can view documentation on this here: <http://phplens.com/adodb/>. To access the database inside your function you'll first need to make available the connection that has already been created.

```
function custom_customer_updater($params) {
    global $conn; // Make the db connection available here
}
```

9. Write a query to get the customer record we are interested in and for now just send the data to the screen (from this point you can modify it to update your system instead).

```
function custom_customer_updater($params) {
    global $conn; // Make the db connection available here
    $sql = "select * from customer where id='$params[id]'";
    $rs = $conn->execute($sql);
    if (!$rs) {
        // Add your own error checking here
        // Some error with the query
        return;
    }
    if ($rs->EOF) {
        // Record not found
        return;
    }
    // Access the fields by using $rs->fields['id'], etc.
    // or by doing a $r = $rs->fetchrow(); and then
    // $r['id'], etc.
    echo "Customer: " . $rs->fields['companyname'] . "<br>";
}
```

```

echo "Address: " . $rs->fields['address1'] . "<br>";
}

```

Here's an easy way to loop through records if you need to at some point in your function:

```

while($r = $rs->fetchrow()) {
    echo "ID: $r[id], Company Name: $r[companyname]<br>";
}

```

10. That's really all there is to getting your own code to run in response to activities within NolaPro.

### List of Available NolaPro Triggers

NolaPro event names are produced by taking the module name, the section within the module and the action being performed and concatenating them together with a period. So if the module is AR, the section is Order and the action is Update, then when you register your function the event name to use would be ar.order.update.

Module	Section	Action
admin	company	add
admin	company	delete
admin	company	update
admin	emailcenter	send
admin	user	add
admin	user	delete
admin	user	update
ap	bill	add
ap	bill	delete
ap	bill	update
ap	check	cash
ap	check	uncashed
ap	check	void
ap	check	write
ap	commissioncheck	write
ap	manualcheck	write
ap	po	add
ap	po	delete
ap	po	passtoap
ap	po	receive
ap	po	update

<b>Module</b>	<b>Section</b>	<b>Action</b>
ap	preapprovedcheck	write
ap	vendor	add
ap	vendor	delete
ap	vendor	update
ap	withoutpo	receive
ar	bankdeposit	add
ar	bankdeposit	delete
ar	carrier	add
ar	carrier	delete
ar	carrier	update
ar	carriermethod	add
ar	carriermethod	delete
ar	carriermethod	update
ar	creditcheck	write
ar	customer	add
ar	customer	delete
ar	customer	update
ar	invoice	add
ar	invoice	delete
ar	invoice	update
ar	order	add
ar	order	delete
ar	order	invoice
ar	order	quote
ar	order	serviceticketpdf
ar	order	shipment
ar	order	update
ar	payment	add
ar	paymentplan	add
ar	paymentplan	delete
ar	paymentplan	post
ar	paymentplan	update
ar	rma	add
ar	rma	delete
ar	rma	update
ar	salescategory	add
ar	salescategory	delete

<b>Module</b>	<b>Section</b>	<b>Action</b>
ar	salescategory	update
ar	salesperson	add
ar	salesperson	delete
ar	salesperson	update
ar	salesterritory	edit
ar	shipto	add
ar	shipto	delete
ar	shipto	update
b2b	customer	update
b2b	order	add
b2b	payment	add
gl	account	add
gl	account	delete
gl	account	reactivate
gl	account	update
gl	bank	reconcile
gl	voucher	add
gl	voucher	delete
gl	voucher	post
gl	voucher	postreverse
gl	voucher	update
gl	year	close
inv	inventorylocation	add
inv	inventorylocation	delete
inv	inventorylocation	update
inv	item	add
inv	item	adjustment
inv	item	delete
inv	item	transfer
inv	item	update
inv	itemlocation	add
inv	itemlocation	delete
inv	itemlocation	update
inv	itemvendor	add
inv	itemvendor	delete
inv	itemvendor	update
pr	check	edit

<b>Module</b>	<b>Section</b>	<b>Action</b>
pr	check	write
pr	companycontribution	add
pr	companycontribution	delete
pr	companycontribution	update
pr	employee	add
pr	employee	update
pr	employeededuction	add
pr	employeededuction	delete
pr	employeededuction	update
pr	generalbenefit	add
pr	generalbenefit	delete
pr	generalbenefit	update
pr	generaldeduction	add
pr	generaldeduction	delete
pr	generaldeduction	update
pr	generalfactors	update
pr	hours	add
pr	pension	add
pr	pension	delete
pr	pension	update
pr	period	calculate