# **Google Analytics E-commerce Tracking**

By: Brent Crouch http://www.brentcrouch.com

# Index

Summary – Page 2

- Step 1. Setup Your Paypal Account for PDT Page 3
- Step 2. Configure and Upload the PDT Script Page 7
- Step 3. Creating Paypal Buy it Now Buttons Page 11

F.A.Q. – Page 14

Can't Get the Script to Work – Expert Setup Option – Page 16

## **Summary**

I consider Google Analytics the best tracking software on the market. It is packed with tons of useful features, one of which is E-Commerce tracking.

If you don't have E-Commerce setup, you are missing out on one of the most useful features that Google Analytics offers. What good is it study visitor behavior if you can't determine which visitors are making purchases and how much they are spending? This is exactly what E-Commerce tracking can teach you.

With Google Analytics E-commerce enabled, you can view a record of every purchase that was made on your site, how much the purchase was for, how the customer found your site, and how many visits they made before buying. These are just a few of the features available with E-Commerce tracking.

I spent countless hours and a few hundred dollars setting up E-Commerce for my single product websites. Even though there are many webmasters using Google Analytics, there isn't a lot of information available on the web concerning the E-Commerce feature.

After testing several scripts and methods, I finally found something that worked and worked well. I decided to write a quick guide detailing how to setup Google Analytics E-Commerce Tracking for Paypal.

I hope this guide is helpful and saves you time and money. I've tried to be as detailed as possible. If you have moderate web experience, you should have no problem setting this up.

If configuring and setting up this script is beyond your capabilities, I've offered a couple of options at the end of this guide.

Good Luck,

Brent Crouch http://www.brentcrouch.com

# **Paypal Account Setup**

- 1. Sign into your Paypal account.
- 2. Click the <u>My Account</u> tab.
- 3. Click the **<u>Profile</u>** subtab.

4. Click the <u>Website Payment Preferences</u> link in the Selling Preferences column on the right. The Website Payment Preferences page opens.

5. Follow the directions on the following page. Click Save.

A confirmation message will appear at the top of the page indicating that you have successfully enabled Payment Data Transfer. Your identity token will appear within that message, as well as below the Payment Data Transfer On/Off radio buttons.

Copy and paste your identity token in notepad for use later.



By enabling this feature, any Buy Now, Donation, or Subscription button that is not encrypted will be rejected by PayPal.

Block Non-encrypted On Doesn't matter for our purposes.

 Using your own code, you encrypt all website payments before sending them to PayPal.

By enabling this feature, any Buy Now, Donation, or Subscription button that is not encrypted will be rejected by PayPal.

atter for our purposes.
will go through an optimized checkout v, Donations, and Shopping Cart buttons,
latter for our purposes.
will be asked to include a Contact on. <u>Learn More</u> ve a negative effect on buyer conversion.
<b>Doesn't matter for our purposes</b> nds this option)
ly support the German funding methods cout implementation.
natter for our purposes.
Save

# **Configure and Upload the PDT Script**

The next step is setting up the Paypal PDT script on your site. For most people, this will be the most difficult part of the setup. You can name the script anything you want as long as it ends with the extension .cgi. For our example, we'll name the script paymentprocessing.cgi.

There are a few variables you'll need to setup in the script. When a buyer makes a payment, Paypal will direct them to the paymentprocessing.cgi page for just a few seconds. During this time, you can execute the Google Analytics code, your affiliate tracking codes, and any other PPC conversion data.

You can download the paymentprocessing.cgi script in text form from my site at the URL below. Be sure to rename the file with a .cgi extension before loading it to your site. Also, upload the file in ASCII and set the permissions to 755.

http://www.brentcrouch.com/pdt/paymentprocessing.txt.

## Configuring the variables

<u>Note 1.</u> If you are using Overture Conversion Data, you will need to replace the red colored font with your account id. If not, you can remove everything between **OPTIONAL 1 START** and **OPTIONAL 1 END**.

If you have any other javascript that needs to be added in the Head section of the page, you should add it here.

<u>Note 2.</u> If you are using Google Conversion Data, you will need to replace the red colored font with your account id. If not, you can remove everything between **OPTIONAL 2 START** and **OPTIONAL 2 END**.

<u>Note 3.</u> When you enabled PDT in your Paypal profile, you were given an authorization token. Copy and paste your payment authorization in the field provided.

<u>Note 4.</u> When your customer makes a payment, they will be returned to the payment processing script long enough to write the Google Analytics E-Commerce code. After a few seconds, the script will redirect to the URL of your choice. This can be your product download page or a Thank You for your Order Page. Place the final URL in the space provided.

<u>Note 5.</u> I use this section to write tracking codes for a few scripts I use. You should be able to take a look at how I used the Paypal PDT variables in this section and get a good idea of how to setup your own tracking codes. If you don't need to write any tracking codes, just delete everything between **OPTIONAL 5 START** and **OPTIONAL 5 END**.

Note 6. Enter your Google Analytics account info here.

<u>Note 7.</u> Analytics allows you to enter your product category to be later displayed on your E-Commerce reports. You can hard code any value you want here or just leave it like it is.

```
#!/usr/bin/perl -w
###
# PayPal PDT (Payment Data Transfer) CGI
#Brent Crouch
#http://www.brentcrouch.com
###
use strict;
use CGI qw(:all unescape);
use CGI::Carp qw(fatalsToBrowser);
# These modules are required to make the secure HTTP request to PayPal.
use LWP::UserAgent;
use Crypt::SSLeay;
# Javascript modules go here
my $JSCRIPT_HEAD=<<EOF_HEAD;
                 OPTIONAL 1 START
  <!-- Overture Services Inc. 07/15/2003
  var cc_tagVersion = "1.0";
var cc_accountID = "XXXXXXXXXXX";
                                          See Note 1
  var cc_marketID = "0";
  var cc_protocol="http";
  var cc subdomain = "convctr"
  if(location.protocol == "https:")
    cc_protocol="https";
    cc_subdomain="convctrs";
  3
  var cc_queryStr = "?" + "ver=" + cc_tagVersion + "&aID=" + cc_accountID +
           "&mkt=" + cc_marketID +"&ref=" + escape(document.referrer);
  var cc_imageUrl = cc_protocol + "://" + cc_subdomain +
           ".overture.com/images/cc/cc.gif" + cc_queryStr;
  var cc_imageObject = new Image();
  cc_imageObject.src = cc_imageUrl;
              OPTIONAL 1 END
  11 -->
EOF_HEAD
  ;
my $JSCRIPT_BODY=<<EOF_BODY
                    OPTIONAL 2 START
  <!-- Google Code for Purchase Conversion Page -->
  <script language="JavaScript" type="text/javascript">
  <!--
  var google_conversion_id = 10XXXXXXXX;
                                                 See Note 2
  var google_conversion_language = "en_US";
var google_conversion_format = "2";
  var google_conversion_color = "FFFFFF";
  if (1) {
   var google_conversion_value = 1;
  var google_conversion_label = "Purchase";
  11-->
  </script>
  <script language="JavaScript" src="http://www.googleadservices.com/pagead/conversion.js">
  </script>
                                                                                                  See Note 2
  <noscript>
  <img height=1 width=1 border=0 src="http://www.googleadservices.com/pagead/conversion/106XXXXXXX/?value=1&label=Purchase&script=0">
   </noscript>
   <!-- End Google Code for Purchase Conversion Page -->
                 OPTIONAL 2 END
EOF_BODY
my $auth_token = "-nwJzMe3nAz6e7FHYQmzCXXXXXXXXXXXXXXXXXXXXXXXXXXX; See Note 3
sub done_text {
    return (p('Your transaction has been completed, and a receipt for your purchase has been emailed to you. You may log into your account
at <a href="https://www.paypal.com/">www.paypal.com</a> to view details of this transaction.
You will now be sent to the download area.'), end_html());
}
print header(), start_html(-title=>'Paypal Processing Script',
              , start_html(-title=>'Paypal Processing Script', See Note 4
-head=>meta({-http_equiv=>'refresh',-content=>'1; URL=http://www.jillianentertainment.com/XXXX/XXXXX.html'}),
              -script=>$JSCRIPT_HEAD
             );
print $JSCRIPT_BODY;
                           #Puts Javascript code into HTML BODY
# Set up the secure request to the PayPal server to fetch the transaction info
my $paypal_server = "www.paypal.com";
my $transaction = param("tx");
if (not $transaction) {
    print (h2("The transaction ID was not found."), done_text());
    exit();
```

my \$paypal\_url = "https://\$paypal\_server/cgi-bin/webscr";

print (h2("The transaction ID was not found."), done text()); exit(); 3 my \$paypal\_url = "https://\$paypal\_server/cgi-bin/webscr"; my \$query = join("&", "cmd=\_notify-synch", "tx=\$transaction", "at=\$auth\_token"); my \$user\_agent = new LWP::UserAgent; my \$request = new HTTP::Request("POST", \$paypal\_url); \$request->content\_type("application/x-www-form-urlencoded");
\$request->content(\$query); # Make the request my \$result = \$user\_agent->request(\$request); if (\$result->is\_error) { exit(); } # Decode the response into individual lines and unescape any HTML escapes my @response = split("\n", unescape(\$result->content)); # The status is always the first line of the response. my \$status = shift @response; if (\$status eq "SUCCESS") { # success my %transaction; foreach my \$response\_line (@response) {
 my (\$key, \$value) = split "=", \$response\_line; \$transaction{\$key} = \$value; } **OPTIONAL 5 START** See Note 5 print(('<!--Start Adtrackz Conversion Tracking Code--><img src="http://www.jillianentertainment.com/XXXXXXX.php? type=sale&value=', \$transaction{'mc\_gross'}. '&id=', \$transaction{'item\_number'}. '&name=', \$transaction{'first\_name'}. '%20', \$transaction{'last\_name'}. '&description=', \$transaction{'item\_number'}. "width=1 height=1> <!--End Adtrackz Conversion Tracking Code-->'), ('<!--Start BestAdTracking Tracking Code-->
<img src="http://www.dvd-wholesale-directory.com/XXXXXXXXXXXXXXXx.php?type=sale&value=', \$transaction{'mc\_gross'}, '&id=',
\$transaction{('item\_number'}, '&name=', \$transaction{{'first\_name'}, '%20', \$transaction{'last\_name'}, '&description=', \$transaction{'item\_number'}.</pre> "width=1 height=1> <!--End BestAdTracking Tracking Code-->'), ('<!--Start Affiliate Tracking Code--> 'water inter Trouting Good 's constraints' for the second state of the second sta <!--End Affiliate Tracking Code-->')); **OPTIONAL 5 END** #Google Analytics Tracking Code print qq[ <script type="text/javascript"> var gaJsHost = (("https:" == document.location.protocol) ? "https://ssl." : "http://www."); document.write(unescape("%3Cscript src='" + gaJsHost + "google-analytics.com/ga.js' type='text/javascript'%3E%3C/script%3E")); </script> <script type="text/javascript"> var pageTracker = \_gat.\_getTracker("UA-XXXXXXXXXXX"); See Note 6
pageTracker.\_initData(); pageTracker.\_trackPageview(); pageTracker.\_addTrans( "\$transaction{'first\_name'} \$transaction{'last\_name'}", "\$transaction{'mc\_gross'}", ', "\$transaction{'address\_city'}", "\$transaction{'address\_state'} "\$transaction {'address\_country'}" ); pageTracker.\_addItem( "\$transaction{'first\_name'} \$transaction{'last\_name'}", "\$transaction{'item\_number'}", "\$transaction{'item\_name'}", "Product Category", See Note 7 "\$transaction{'mc\_gross'}", "\$transaction{'quantity'}" ); pageTracker.\_trackTrans(); </script> 1: } elsif (\$status eq "FAIL") {
 print(h2("Unable to retrieve transaction details.")); # failure } else { # unknown error print(h2("Error retrieving transaction details.")); 3 print done\_text();

# **Creating Paypal Buy it Now Buttons**

You'll need to recreate your Paypal buy it now buttons to include a return url. Follow the steps below to make buy it now buttons compatible with Paypal's PDT.

- 1. Sign into your Paypal account.
- 2. Click the Merchant Services tab.
- 3. Click the **Buy it Now Buttons**.

4. Fill out the options on the first page and Click <u>Add More Options</u> at the bottom of the page.

5. Make sure **<u>Auto Return</u>** is set to on.

5. You'll see an entry for <u>Successful Payment Url</u>. This is where you will enter the URL for your payment processing script. Ex. http://www.myurl.com/paymentprocessing.cgi

6. Also, make sure the PDT option is set to "On".

7. Now Click Create Button Now.

buy now buccon	S	See Demo	
Sell individual items on payment button.	your website by creating a customiz	ed More Resources Techniques, examples, and more.	
			-
Create Buy Now bu	itton		
Item details			
Item name/service:			
Item ID/number: (optional)			
Price:			
Currency:	U.S. Dollars		
You can change the default countries below. Otherwise	checkout language and content for your I , do nothing and your buyers can choose	ouyer by selecting from the for themselves.	
Buyer's default country:	United States	?	
Weight: (Optional)	Lbs 🔽 🙎		
Buy Now     1      Buy Now     1      Buy Now     1      Buy Now     86x2	D7x26     Pay I       22x47     Pay I       1     Pay No	107x26 107x26 122x47 86x21	
<ul> <li>Buy Now</li> <li>Buy Now</li> <li>Buy Now</li> <li>Section 3</li> <li>Buy Now</li> <li>86x2</li> <li>Need more choices?</li> <li>Other button sizes   Us</li> <li>Button encryption</li> </ul>	22x47 Pay 1 Pay No 1 Pay No	107x26 Now 122x47 122x47 86x21	11
<ul> <li>Buy Now</li> <li>Buy Now</li> <li>Buy Now</li> <li>Seed more choices?</li> <li>Other button sizes   Us</li> <li>Button encryption</li> <li>Yes</li> </ul>	22x47  Pay log 22x47 Pay log 22x47 Pay No 1 Pay No rice and other details are <u>encrypted</u>	107x26 Now 122x47 86x21 and cannot be altered.	**
<ul> <li>Buy Now</li> <li>Buy Now</li> <li>Buy Now</li> <li>Seed more choices?</li> <li>Other button sizes   Us</li> <li>Button encryption</li> <li>Yes</li> <li>Your item p</li> <li>Note: Selection</li> </ul>	D7x26       Pay         22x47       Pay         1       Pay No         rice and other details are encrypted         ng encryption means you cannot use optice	107x26 Now 122x47 86x21 and cannot be altered. n fields or create email links.	
<ul> <li>Buy Now</li> <li>Buy Now</li> <li>Buy Now</li> <li>Seed more choices?</li> <li>Other button sizes   Us</li> <li>Button encryption</li> <li>Yes</li> <li>Your item p</li> <li>Note: Selecti</li> <li>No</li> <li>Non-encryp option fields</li> </ul>	22x47  Pay lo 22x47 Pay lo 22x47 Pay lo 22x47 Pay No 1 Pay No rice and other details are encrypted rice and other details are encrypted rice and other details are encrypted rice and other means you cannot use optic ted buttons allow you to directly mo t, and generate email links.	107x26 Now 122x47 86x21 and cannot be altered. n fields or create email links. dify your HTML code, create	
<ul> <li>Buy Now</li> <li>Buy Now</li> <li>Buy Now</li> <li>Shipping Method Option</li> </ul>	07x26       Pay         22x47       Pay         1       Pay No         rice and other details are encrypted         ng encryption means you cannot use option         ted buttons allow you to directly mode, and generate email links.         ons	107x26 Now 122x47 86x21 and cannot be altered. n fields or create email links. dify your HTML code, create	
<ul> <li>Buy Now</li> <li>Buy Now</li> <li>Buy Now</li> <li>Buy Now</li> <li>Second State</li> <li>Wise</li> <li>Buy Now</li> <li>Box Now</li> <li>Shipping Method Option</li> <li>Onfigure your shipping</li> <li>Use my ship</li> <li>Use a flat residue</li> </ul>	07x26       Pay         22x47       Pay         1       Pay No         rice and other details are encrypted         ng encryption means you cannot use optic         ted buttons allow you to directly modely, and generate email links.         ons         method options for this button.         ping calculations set up in my Profile         ate amount	107x26 Now 122x47 86x21 and cannot be altered. n fields or create email links. dify your HTML code, create	**
<ul> <li>Buy Now</li> <li>Buy Now</li> <li>Buy Now</li> <li>Buy Now</li> <li>86x2</li> <li>Need more choices?</li> <li>Other button sizes   Us</li> <li>Button encryption</li> <li>Yes</li> <li>Your item p</li> <li>Note: Selecti</li> <li>No</li> <li>Non-encryp option fields</li> <li>Shipping Method Opti</li> <li>Configure your shipping</li> <li>Use my ship</li> <li>Use a flat ratio</li> </ul>	22x47 Pay 22x47 Pay 1 Pay No rice and other details are encrypted ag encryption means you cannot use option ted buttons allow you to directly model and generate email links. ons method options for this button. ping calculations set up in my Profile ate amount	107x26 Now 122x47 86x21 and cannot be altered. n fields or create email links. dify your HTML code, create USD	
<ul> <li>Buy Now</li> <li>Buy Now</li> <li>Buy Now</li> <li>Shipping Method Opti</li> <li>Configure your shipping</li> <li>Use a flat ra</li> <li>Sales Tax Options</li> </ul>	D7x26       Pay         22x47       Pay         1       Pay No         1       Pay No         rice and other details are encrypted         ng encryption means you cannot use optic         ted buttons allow you to directly model, and generate email links.         ons         method options for this button.         ping calculations set up in my Profile         ate amount	107x26 Now 122x47 86x21 and cannot be altered. n fields or create email links. dify your HTML code, create USD ?	•••
<ul> <li>Buy Now</li> <li>Buy Now</li> <li>Buy Now</li> <li>Buy Now</li> <li>86x2</li> <li>Need more choices?</li> <li>Other button sizes   Us</li> <li>Button encryption</li> <li>Yes</li> <li>Your item p</li> <li>Note: Selecti</li> <li>No</li> <li>Non-encryp option fields</li> <li>Shipping Method Opti</li> <li>Configure your shipping</li> <li>Use my ship</li> <li>Use a flat ra</li> <li>Sales Tax Options</li> <li>Configure your sales ta</li> </ul>	22x47 Pay 22x47 Pay 22x47 Pay 1 Pay No rice and other details are encrypted rice and other details are encrypted ag encryption means you cannot use option ted buttons allow you to directly model and generate email links. ons method options for this button. ping calculations set up in my Profile ate amount	IO7x26         Now       122x47         Image: Second state stat	



Note: If you enable Encrypted Website Payments, all of your Buy Now, Donations, and Subscriptions buttons **must** be encrypted via one of the following methods:

• Using the Button Factory with the security settings enabled.

# FAQ

## 1. How do I know if the script is working?

It takes Google Analtyics 24 hours to update and show the most recent sales. This is why configuring and debugging this script can be pretty frustrating. The only way to know that E-Commerce is setup properly is to sign into your Analytics account 24 hours after you make a sale and confirm it was recorded.

One thing you can do to make sure the script is setup on your server correctly is to type the URL in your browser. Normally, the page should load for about 2 seconds and redirect to the URL you set in the configuration. If this happens, then chances are E-Commerce will work. However, if you get a 500 error, you need to take a closer look at your script configuration.

### 2. Why does this script need to direct to another page?

When you send a customer to your product download page, most will bookmark the page and visit it several times. In my opinion, this isn't the place to write tracking codes. If you do, a customer revisiting this page could record bad data in your tracking and conversion programs.

In my experience, it is better to direct the customer to a temporary page to write tracking data and then direct them to the final download page.

## 3. Does this script work with anything other than Paypal?

This script is currently setup to work just with Paypal. I do have some experience setting this up on one of my sites using a standard merchant account. Depending on how much demand there is for this type of thing, I may make options other than Paypal available in the future.

#### 4. I can't get the script setup. Can you do it for me?

If you know the basics, I'll help you out answering any questions I can. You can just email me at <u>brent@brentcrouch.com</u> or write me a message at the Warrior Forum.

If you don't know the basics, I'm not going to spend the time to teach you how to FTP a file to your server and configure it. I offer a paid option at the end of the manual.

5. I am already using Paypal's IPN. Will PDT and IPN work together?

Using PDT will not affect IPN at all. They both operate independently of each other. I currently use Paypal IPN to write my database and there has been no problem adding PDT.

# **Expert Setup Option**

My goal in creating this book was to give you detailed info so you can setup and install this script yourself. If you are having problems that are beyond resolving by email or just aren't comfortable setting this up yourself, I would like to offer you the option of having me setup and install the script for you.

I'll install and setup Google Analytics on your website as well as install and configure the PDT script for only \$99. This offer is for sites that are using Paypal as a payment option and have 20 pages or less. If you need Analytics setup on more pages, please contact me for a quote.

If this option is of interest to you, please visit the link below for payment options.

http://tinyurl.com/2pomm8

Good Luck,

Brent Crouch http://www.brentcrouch.com