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Integrate Facebook Pixel and Drupal Webform via Google Tag Manager

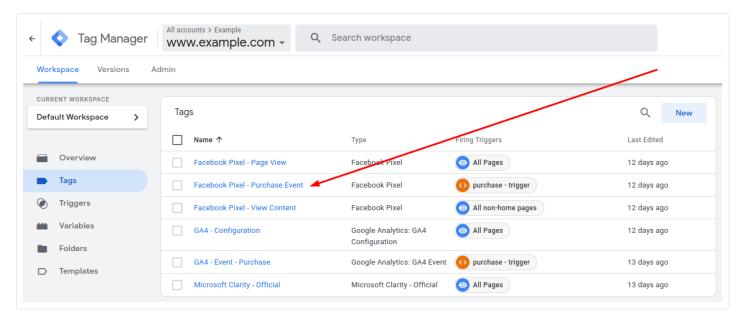
In my previous article, I explained how to integrate the Facebook Pixel with a Drupal webform. I used the Simple Facebook Pixel module to send the purchase event to Facebook. In this article, we are going to see how to send the purchase event by using Google Tag Manager (GTM).

If you don't already have the Google Tag Manager module installed, you can install it with Composer:

```
composer require drupal/google_tag
```

To use the module, sign up for GTM, get your Container ID, and configure the module. You can find the instructions for module configuration here.

Once we have the GTM module configured on our website, we can create a new tag in Google Tag Manager.



But before we do that, we have to create a data layer, which will contain all information about the purchase. The data layer has to be injected into the HTML after the user makes a purchase.

To inject the data layer we can use the <code>hook_page_attachments()</code> like this:

```
];
}
}
```

Now let's create the **data_layer_service** service that acts as a middleman between the *hook_page_attachments()* and a Webform handler. This is a simple service that uses PrivateTempStore to make temporary data available across requests.

We need the MY_MODULE.services.yml file:

```
services:
   MY MODULE.data layer service:
     class: Drupal\MY_MODULE\DataLayerService
     arguments: ['@tempstore.private']
and the src/DataLayerService.php file:
 <?php
 namespace Drupal\MY_MODULE;
 use Drupal\Core\TempStore\PrivateTempStoreFactory;
 class DataLayerService {
   /**
    * The private temp store.
    * @var \Drupal\Core\TempStore\PrivateTempStoreFactory
   protected $privateTempStore;
    ^{st} DataLayerService constructor.
    * @param \Drupal\Core\TempStore\PrivateTempStoreFactory private\_temp\_store
        The private temp store.
    */
   public function __construct(PrivateTempStoreFactory $private_temp_store) {
     $this->privateTempStore = $private_temp_store->get('MY_MODULE');
    * Adds data about event.
    * @param array $data
      The event data.
   public function addData(array $data) {
     $this->privateTempStore->set('data', $data);
    * Gets data about event.
   public function getData() {
     $data = $this->privateTempStore->get('data');
     $this->privateTempStore->delete('data');
     return $data;
```

Finally, we can create the Webform handler (placed inside *Plugin/WebformHandler* directory) that will use the Data layer service to store information about the purchase.

Go back to Google Tag Manager and define new custom variables for all \$data array keys.

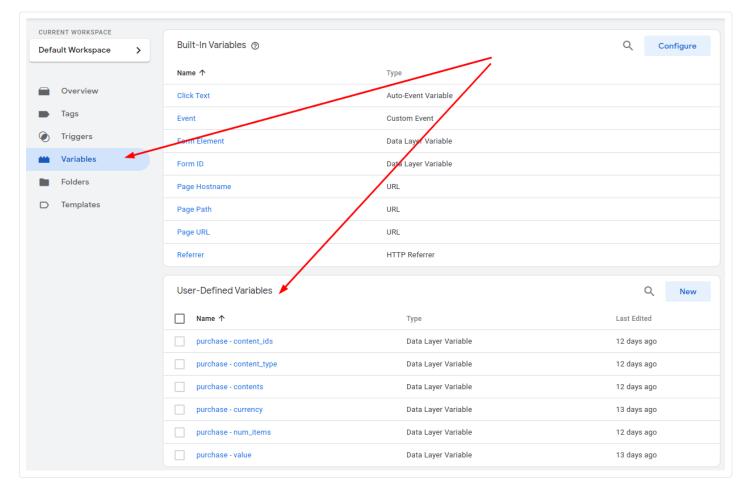
<?php

```
namespace Drupal\MY_MODULE\Plugin\WebformHandler;
use Drupal\commerce product\Entity\ProductInterface;
use Drupal\webform\Plugin\WebformHandlerBase;
use Drupal\webform\WebformSubmissionInterface;
use Symfony\Component\DependencyInjection\ContainerInterface;
 * Inserts data layer on a webform submission.
 * @WebformHandler(
    id = "data_layer",
    label = @Translation("Data layer"),
    category = @Translation("Action"),
     description = @Translation("Inserts data layer on a webform submission."),
     cardinality = \Drupal\webform\Plugin\WebformHandlerInterface::CARDINALITY_UNLIMITED,
    results = \Drupal\webform\Plugin\WebformHandlerInterface::RESULTS_PROCESSED,
     submission = \Drupal\webform\Plugin\WebformHandlerInterface::SUBMISSION_REQUIRED,
 * )
 */
class DataLayerWebformHandler extends WebformHandlerBase {
  /**
   * The route match.
   * @var \Drupal\Core\Routing\RouteMatchInterface
   */
  protected $routeMatch;
  /**
  * The data layer service.
   * @var \Drupal\MY_MODULE\DataLayerService
  protected $dataLayerService;
  /**
   * {@inheritdoc}
   */
  public static function create(ContainerInterface $container, array $configuration, $plugin_id, $plugin_definition) {
   $instance = parent::create($container, $configuration, $plugin_id, $plugin_definition);
    $instance->routeMatch = $container->get('current_route_match');
    $instance->dataLayerService = $container->get('MY_MODULE.data_layer_service');
    return $instance;
   * {@inheritdoc}
   */
  public function postSave(WebformSubmissionInterface $webform_submission, $update = TRUE) {
    /** @var \Drupal\commerce_product\Entity\ProductInterface $product */
    $product = $this->routeMatch->getParameter('commerce_product');
    if ($product instanceof ProductInterface) {
      $submission_data = $webform_submission->getData();
      /** @var \Drupal\commerce_product\Entity\ProductVariationInterface $product_variation */
      $product_variation = $product->getDefaultVariation();
      $unit_price = (float) $product_variation->getPrice()->getNumber();
      $quantity = (int) $submission_data['quantity'];
      $total_price = $unit_price * $quantity;
      $skus[] = $product_variation->getSku();
```

```
$contents[] = [
    'id' => $product_variation->getSku(),
    'quantity' => $quantity,
    'item_price' => $product_variation->getPrice()->getNumber(),
];

$data = [
    'num_items' => $quantity,
    'content_type' => 'product',
    'value' => $total_price,
    'currency' => $product_variation->getPrice()->getCurrencyCode(),
    'content_ids' => $skus,
    'contents' => $contents,
];

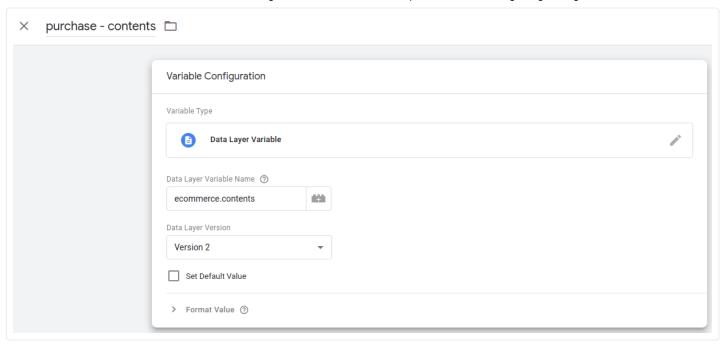
$this->dataLayerService->addData($data);
}
```



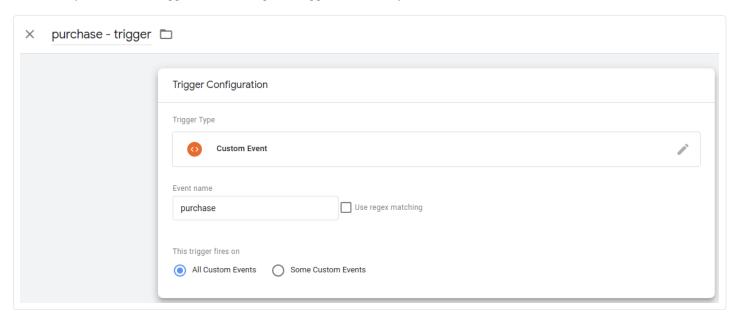
We have the following Data layer variables:

ecommerce.num_items ecommerce.content_type ecommerce.value ecommerce.currency ecommerce.content_ids ecommerce.contents

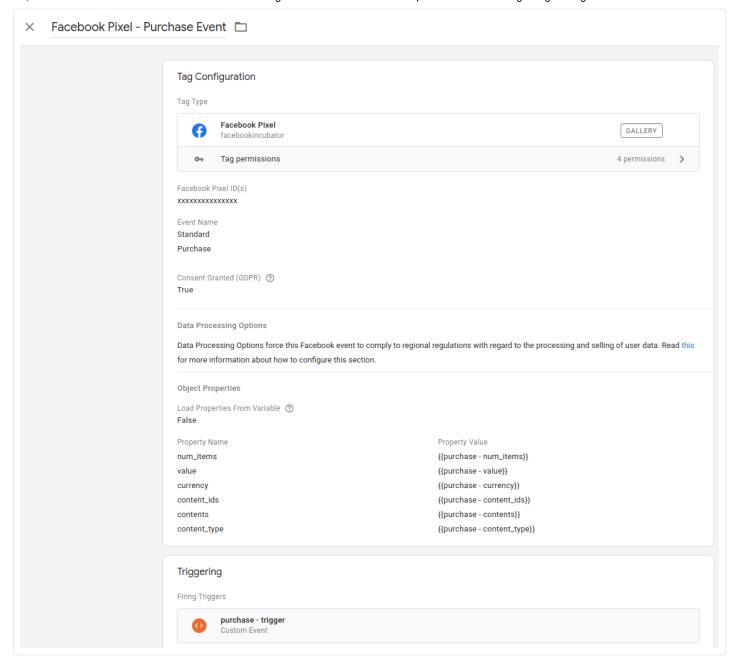
An example of how a variable looks like in GTM:



The last step is to create a trigger and a new tag. The trigger fires on the purchase event:



And here's the purchase event configuration in GTM:



And that's it. It's not an easier way than what I've shown you the last time, but this approach empowers the marketing team. They can use the same data layer to send purchase events to some other analytics service, like for example to Google Analytics without having to ask you to code something.

#drupal #facebook pixel #google tag manager #ecommerce

Further reading

- Integrate Facebook Pixel and Drupal Webform
- Simplify Drupal Commerce 2.x checkout by removing "Login or continue as guest" pane
- Out of Stock feature in Drupal Commerce 2.x

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