

i

Data Activation 3rd Party Integration – Facebook

Instructions

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1 Introduction

1.1 Purpose of this Document

The purpose of this document is to

guide in the integration of CI360 with Facebook products. This includes sending user identifiers after segmentation by CI360 platforms.

1.2 Target Audience

Those who will be implementing Facebook integrations for Customer Intelligence 360

1.3 Considerations

Platforms change and due to the fast changing nature of APIs and technology be sure to read the Facebook documentation to understand what is needed as some things might have changed.

2 Common Use Cases

There are two main use cases for data activation on 3rd Party platforms:

2.1 To enhance re-targeting capabilities for known customer

Digital Advertising can reach very large audiences in both new and known visitors. It is great way to tell brand stories at scale and in context through ads on various devices or channels. However, digital campaigns may waste or miss the target audience without a re-targeting solution to manage the customer experience. The combination of third-party platform and first-party data will enrich the retargeting capabilities for digital campaigns which run off site and increase marketing ROI through improved relevance and accuracy.

2.2 To build a Unified customer data view

A unified customer data view combines all the data points of visitors from data collected off site (third-party) and on site (first-party). These data are able to give a better picture of known visitors and to provide the right offer in the right moment in time regardless they were looking advertisement from the internet or navigating within the website. The unified customer data view is capable of enriching retargeting capabilities for online advertising and marketing campaign as well as in site next best action offering.

3 Design Concepts

3.1 What is retargeting?

Retargeting is a method for putting the organization's brand in front of consumers after they have left the website or app and persuading them to reconsider an offer or value proposition from the brand. It often refers to reaching out to lost visitors by Display Ads and its typically performed by using the third-party platform's event (tracking pixel and cookie) to achieve.

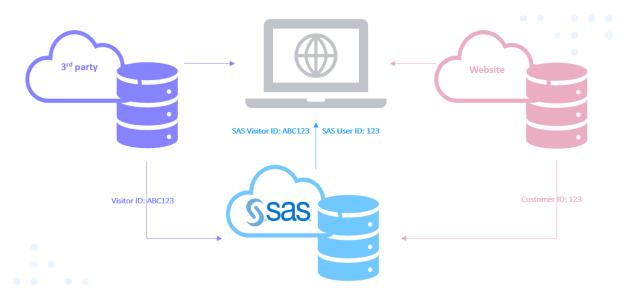
3.2 Customer Data Platform (CDP)

In this article, we are going to use CI360 to combine 1st party data (online and offline), marketing data, and third-party data. Hence, CI360 can be act as CDP to provide unified customer data view for enrich the re-targeting for online campaign which run off-site platform (such as Google Ads), and there are two steps and three methods to achieve this:

- 1. Identity Mapping (between each platform solutions)
- 2. Sending Data to third-party platform:
 - Pixel Tracking
 - Server-to-Server Tracking

3.2.1 Identity Mapping

The following diagram shows how marketing tool act as "middle agent" to map identifier and later to exchange data between organization website / app, marketing automation tool as well as third-party platform:

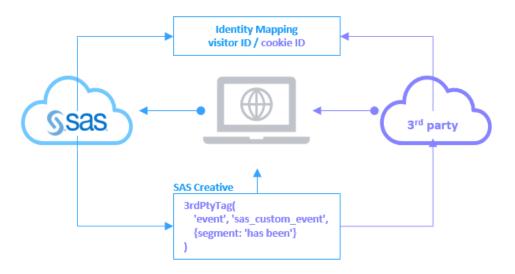


In Cl360, the identity mapping can be done by Custom Event with additional attribution, it will be cover in later sections.

3.2.2 What is Pixel tracking

Pixel tracking are snippets of code provided from third-party platform that are loaded on the website, in specific pages, to track visitors in-site or in-app behavior. The code is usually executed on client side (visitor's web browser or app) which sending the information along with unique cookie ID / visitor ID to third-party platform.

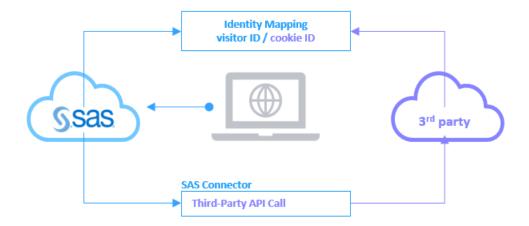
In this offering, we are going to use pixel integration via SAS CI360 Creative to serve third-party tracking code. This approach is different to traditionally third-party tracking which only embedded in the specified page; CI360 will decide the right moment of the customer journey to fire the event or share the segment.



3.2.3 What is Server-to-Server tracking

Server-to-Server tracking is using APIs call to fire tracking event directly from the solution backend to third party platform which extended the tracking beyond visitor exited the website or app. It is also enhancing the site security as server to serve tracking doesn't require any third-party coding to be installed on the site and tracking event can be control and triggered by solution owned by the organizations.

In this offering, we are going to use Server-Side API framework (Connector) to execute third-party tracking server call. This approach allows to share event / segment without embedded third-party code on the website site to maintain security / data privacy. As well as, for the visitor beyond the site exit where pixel integration unable to reach out.



4 Identity Mapping

In order to get Pixel integration and Server-to-Server (API) with third-party platforms, the first step is mapping third-party platform ID with SAS ID.

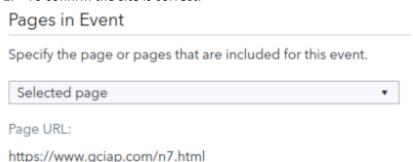
4.1 SAS Support Code for FB

In contrast to other similar integrations we must use some support code to collect Facebook identifier information with SAS CI360. This allows for collections of the pixel identifiers.

4.2 Custom Event for identity mapping

Here we will create a Custom Event, this is required as the code used in our creative to trigger the pixel will use merge tags in order to replace information to be sent to FB. The instructions will provide how to create an event and which data will be sent to FB but you can create your own event with different criteria and naming.

- a. From navigation bar, click Events
- b. Click the button for create a new event
- c. Select Custom Event
- d. Select Page View as event type
- e. Enter the Page URL for re-targeting
- f. Click Create Event
- g. In the Event Details Tab
 - i. Go to Event Configuration
 - 1. To confirm the site is correct:



ii. Go to Event Attributes

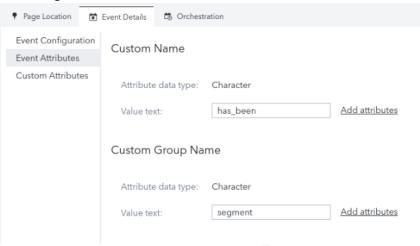
1. In Custom Name's value text: type in "has been":

This is a custom value that will be collected in Facebook and stored as custom parameter field defined as below.

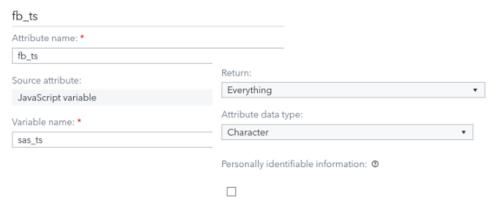
2. In Custom Group Name's value text: type in "segment":

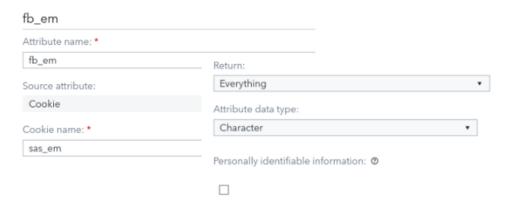
This is a custom value will be used as custom parameter field name in FB event's custom data

iii. The configuration should look similar to the below:



- iv. Create a new Custom Attribute by clicking
- v. Choose Page Details > JavaScript Variable
- vi. Set the attribute name to **fb_ts**
- vii. Variable name to sas_ts
- viii. Return: Everything
- ix. Attribute data type: Character
- x. Personally identifiable information: **Unchecked** (note that we keep this unchecked so we can connect other information from other systems and connect it with our own identifiers if needed later in our data)



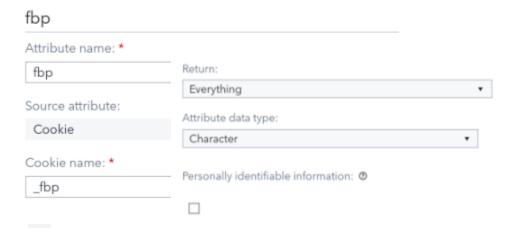


fb_ts are coming from the "SAS Support Code" and they designed for data mapping and API integration which will be covered in later sections.

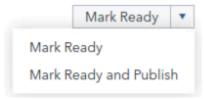
xi. Create a new Custom Attribute by clicking



- xii. Choose URL Details > Cookie
- xiii. Set the attribute name to fbp
- xiv. Variable name to _fbp
- xv. Return: Everything



- h. click the button to save the Custom Event
- type in "Event: FB Pixel" (this is just a placeholder name, you can use any event you want), then click Save
- j. Go to the Orchestration Tab
 - i. Click on Mark Ready and Publish from drop-down menu:



ii. Click Yes when prompted by Publishing the item will change the status to Scheduled or Active

5 Pixel Integration (Client Side)

Facebook (FB) is using the Facebook Pixel Code to collect web and similar method for native app (ios and android) with Facebook SDK. This information can be formed into group of users (FB called **Custom Audience**) as ad targeting criteria in Facebook Ads. This document attempts to standardize the process of SAS Ci360 to control FB event pixel. This also assumes that there is one Cl360 tenant and one FB instance, some code might need to be modified for testing environments or otherwise.

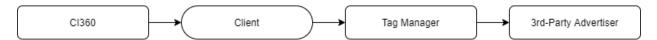
Planning is essential with Pixel Integration as there are many ways to accomplish this. With the changes to allow for JavaScript spots we can now deploy snippets of JavaScript code directly into spots but users may opt to centralize all 3rd party JavaScript into one platform like Google Tag Manager or Adobe Launch, etc.

1. CI360 Controlled



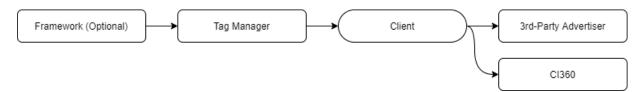
JavaScript integrations are made and hosted by CI360 and implemented directly into the spots. Implementation this way only requires that we have CI360 installed on the website and it is collecting data data.

2. Tag Manager Intermediator



CI360 is used to host code that then calls on a Tag Manager rule to fire. This can be beneficial to allow the tag manager, such as Google Tag Manager or Adobe Launch/DTM to manage all 3rd party scripts executed in a single platform which is very commonly used these days. Adding on another script can be simplified and governance policies are easier to manage with already existing processes.

3. Tag Manager/Framework Controlled (Using Cl360 JS API)



In this instance, you build rules either using an 1st party system or in the Tag manager which then delivers to 3rd Party Advertiser at the same time. The Framework rules or and/or the Tag Manager rules execute and deliver the 3rd Party Pixels to the client which then executes the JavaScript/Pixels for both Cl360 and 3rd Party Advertisers at the same time. This version does not require any special implementation beyond using JS API 2.0 call to Cl360.

5.1 Requirements

5.1.1 Add the Facebook pixel to the web (known user)

Below is the basic Facebook Pixel base code to embed to the website for tracking their audience activities outside Facebook Apps or Pages and using Email as **identifier**:

```
<!-- Facebook Pixel Code -->
<script>
!function(f,b,e,v,n,t,s)
{if(f.fbq)return; n=f.fbq=function() {n.callMethod?
n.callMethod.apply(n,arguments):n.queue.push(arguments));
if(!f. fbq)f. fbq=n;n.push=n;n.loaded=!0;n.version='2.0';
n.queue=[];t=b.createElement(e);t.async=!0;
t.src=v;s=b.getElementsByTagName(e)[0];
s.parentNode.insertBefore(t,s)}(window, document,'script',
'https://connect.facebook.net/en US/fbevents.js');
fbq('init', '<facebook_pixel_id>', {em: '<email>'});
fbq('track', 'PageView');
</script>
<noscript><img height="1" width="1" style="display:none"</pre>
src="https://www.facebook.com/tr?id=<facebook pixel id>&ev=PageView&noscript=1"
/></noscript>
<!-- End Facebook Pixel Code -->
Note. The {em: '<email>'} properties can be removed for anonymous user.
```

5.1.2 SAS Support Code for FB

With SAS, we required to embed the below code right after the Facebook Pixel for mapping FB activities and SAS Events in later sections:

```
<script>
<!-- SAS Facebook support Tag -->
var sas_ts=0|Date.now()/1e3;
<!-- SAS Facebook support Tag -->
</script>
```

5.1.3 CI360 Tag Deployed

Add in the CI360 tag into the site (note that if you're making several pixel calls for different services, it would be best practice to deploy the below SAS Pixel Placeholder code with several different div's using different IDs, as setting them up the same way will conflict). Please copy the code from your CI360 from the **General Settings > SAS Tag Instruction** section.

```
SAS Ci360 Tag Example:
<!-- SAS Ci360 Tag -->
<script>
(function(ci){
    var ef=window[ci]=function(){
        return ef.q.push(arguments);
    };
    ef.q=[];ef.a={};
})('ci360');
</script>
<script async data-efname='ci360' id='ob-script-async'
    a='<tenant ID>'
    src='https://<server>/js/ot-all.min.js'></script>
```

5.2 CI360 Controlled or Tag Manager Intermediator Pixel Calls

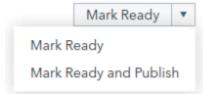
5.2.1 Create Spot in Cl360

This will create a spot for Cl360 where we can then inject content, in this case we will inject a tag in order to send data from the website client to the Facebook servers

- a. From navigation bar, click Spots
- b. Click the button to create a new spot
- c. Select JavaScript as the spot type
- d. Navigate to the URL of the web page with SAS CI360 Tag and SAS Pixel placeholder
- e. Then, click Create Spot
- f. In Spot Details Tab,
 - i. select Spot Attribution from the menu bar
 - 1. click the button to add new Attribution for the spot
 - 2. select URL path (entire path) as Attribute
 - 3. click OK
 - 4. amend the Attribute name to "page_url":



- g. click the button to save the Spot
- h. type in a name for the Spot and then click Save
- i. Go to the Orchestration Tab
 - i. Click on Mark Ready and Publish from drop-down menu:



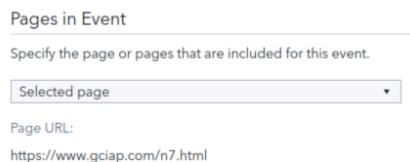
ii. Click Yes when promoted by Publishing the item will change the status to Scheduled or Active

Tip: The example below fires a FB event if user had been visited X page Y times during Z period.

5.2.2 Create Custom Event

Here we will create a Custom Event, this is required as the code used in our creative to trigger the pixel will use merge tags in order to replace information to be sent to FB. The instructions will provide how to create an event and which data will be sent to FB but you can create your own event with different criteria and naming.

- 1. From navigation bar, click Events
- 2. Click the button for create a new event
- 3. Select Custom Event
- 4. Select Page View as event type
- 5. Enter the Page URL for re-targeting
- 6. Click Create Event
- 7. In the **Event Details** Tab
 - i. Go to Event Configuration
 - 1. To confirm the site is correct:



ii. Go to Event Attributes

1. In Custom Name's value text: type in "has_been":

This is a custom value that will be collected in Facebook and stored as custom parameter field defined as below.

2. In Custom Group Name's value text: type in "segment":

This is a custom value will be used as custom parameter field name in FB event's custom data

Page Location

Event Configuration

Event Attributes

Custom Name

Attribute data type: Character

Value text: has_been

Add attributes

Custom Group Name

Attribute data type: Character

iii. The configuration should look similar to the below:

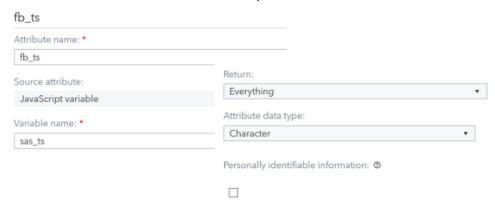
iv. Create a new Custom Attribute by clicking

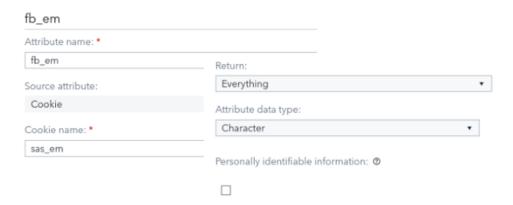
Value text:

- v. Choose Page Details > JavaScript Variable
- vi. Set the attribute name to fb_ts
- vii. Variable name to sas_ts
- viii. Return: Everything
- ix. Attribute data type: Character
- x. Personally identifiable information: **Unchecked** (note that we keep this unchecked so we can connect other information from other systems and connect it with our own identifiers if needed later in our data)

segment

Add attributes



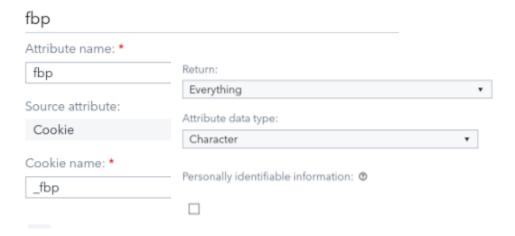


fb_ts comes from the "SAS Support Code" and they designed for data mapping and API integration which will be covered in later sections.

xi. Create a new Custom Attribute by clicking

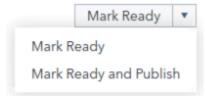


- xii. Choose URL Details > Cookie
- xiii. Set the attribute name to fbp
- xiv. Variable name to _fbp
- xv. Return: Everything



- 8. click the button to save the Custom Event
- 9. type in "Event: FB Pixel" (this is just a placeholder name, you can use any event you want), then click Save
- 10. Go to the **Orchestration** Tab

xvi. Click on Mark Ready and Publish from drop-down menu:



xvii. Click Yes when prompted by Publishing the item will change the status to Scheduled or Active

5.2.3 Create creative with FB pixel (Cl360 Controlled, Option #1)

This is where we will define our code to be replaced on the client machine in order to be executed. In this case it will be requesting a pixel from the FB servers with specific link parameters to transfer information

- a. From navigation bar, click Creatives
- b. Click the button for create new Creative
- c. Select Plain Text as creative type
- d. Copy the Facebook Custom Event Pixel into the body tag as below



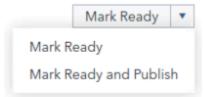
5.2.4 Create creative with Tag Manager rule code (Tag Manager Intermediate)

This is where we will define our code to be replaced on the client machine in order to be executed. In this case it will be requesting a pixel from the FB servers with specific link parameters to transfer information

- e. From navigation bar, click Creatives
- f. Click the button for create new Creative
- g. Select Plain Text as creative type
- h. Install the **Tag Manager Script** here (provided below and in the repository linked here for examples)

```
function() {
  window.dataLayer = window.dataLayer || [];
  window.dataLayer.push({
    'event': 'sas_custom_event',
    '{{eventCategory}}': '{{eventAction}}'
};
});
})();
```

- i. Click Done
- i. click the button to save the creative
- k. type in "Creative: Tag Manager: Custom Event" then click Save
- I. Go To Orchestration Tab
 - a. Click on Mark Ready and Publish from drop-down menu:

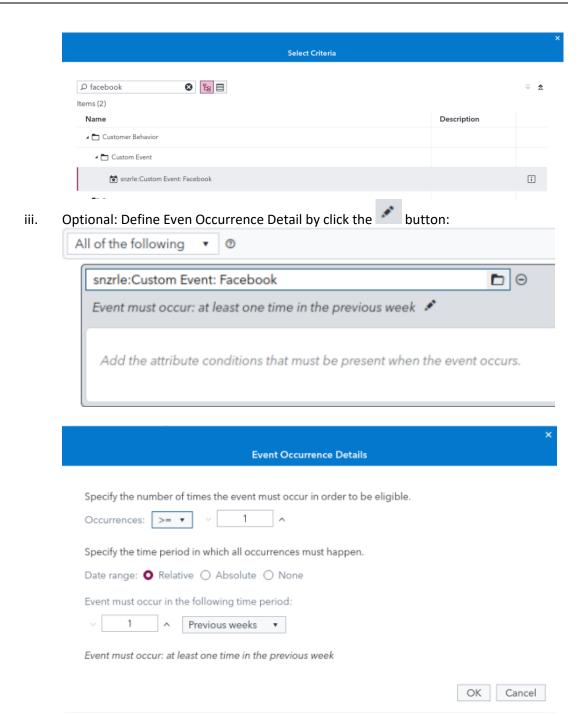


- b. Click Yes when prompted by Publishing the item will change the status to Scheduled or Active
- m. Setup the rule in your Tag Manager and make sure to place the Pixel code into that rule to execute

5.2.5 Define Web Task

Here we will create a task, this connects the Spot and the Creative with Segmentation in order to conditionally fire the FB pixel on the client machine. We will use an event and information defined in the event, combined with merge tags to create the send information to FB servers

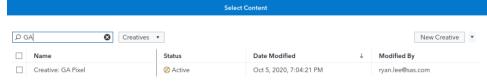
- a. From navigation bar, click Task
- b. Click the button for create new Task
- c. Select **Web** as Task type
- d. Choose the **Spot** created from "Create Spot in Cl360" section
- e. Go to Targeting Tab
 - i. Click the button to add criteria
 - ii. Select the **Custom Event** which defined from Step #2



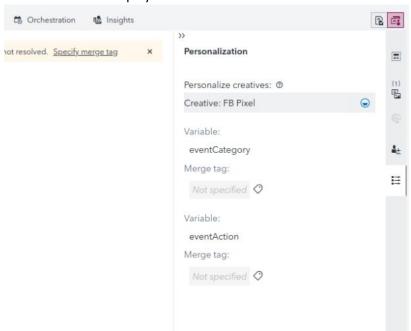
iv. Or leave it by default as once per pervious weeks

- f. Go to Content Tab
 - i. Click Select Content
 - ii. Choose Creatives from the drop-down menu

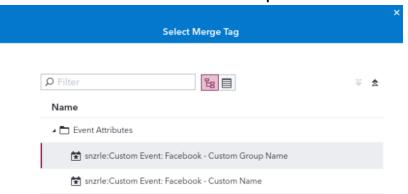
iii. Select the **Creative** defined from "Create creative with GA pixel installed" section



- iv. Click **OK**
- v. Click the button from the right-hand side menu bar
- vi. Screen should be displayed as below:

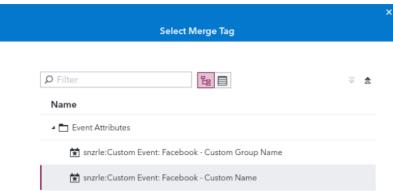


- vii. Click the button from the **eventAction** merge tag field
- viii. Select the Event Attribute with **Custom Group Name**:

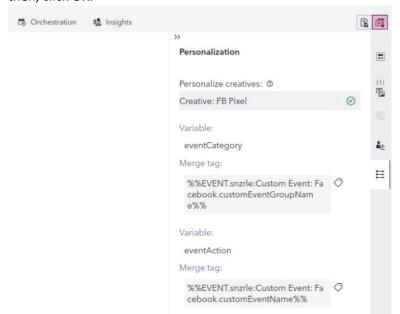


- ix. then, click OK
- x. Click the button from the **eventCategory** merge tag field

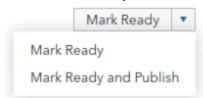
xi. Select the Event Attribute with **Custom Name**:



xii. then, click OK.



- xiii. click the 🔳 button to save the task
- g. Go To Orchestration Tab
 - i. Click on Mark Ready and Publish from drop-down menu:



ii. Click Yes when promoted by Publishing the item will change the status to Scheduled or Active

5.2.6 Trigger FB Pixel via SAS Creative

- a. Go to the page where your Custom Event is fired
- b. Then refresh the page or visit other page contain the CI360 Pixel Placeholder
- c. The "Event: FB Pixel" Custom Event should be now triggered the Facebook Pixel via SAS Creative, as below



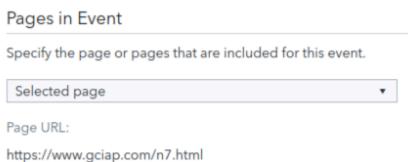
5.3 Tag Manager/Framework Controlled Pixel

Note: This method requires to develop and maintain a naming system outside of CI360. Be sure to note this in either the event name or somewhere to keep everything organized!

5.3.1 Create Custom Event

Here we will create a Custom Event, this will be a JavaScript 2.0 API call event setup to fire from the Tag Manager

- 1. From navigation bar, click Events
- 2. Click the button for create a new event
- 3. Select Custom Event
- 4. Select JavaScript API as event type
- 5. Click Create Event
- 6. Enter the API Event Key
- 7. In the Event Details Tab
 - a. Go to Event Configuration
 - 1. To confirm the site is correct:



b. Go to **Event Attributes**

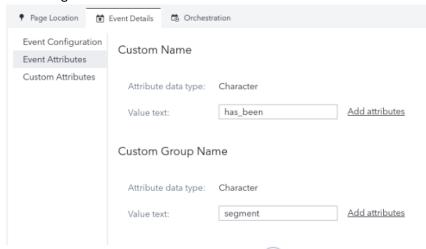
2. In Custom Name's value text: type in "has_been":

This is a custom value that will be collected in Facebook and stored as custom parameter field defined as below.

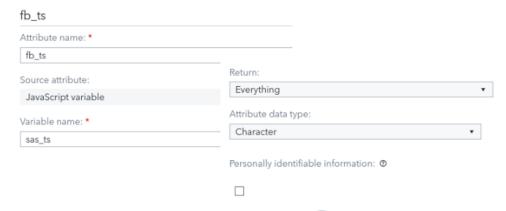
3. In Custom Group Name's value text: type in "segment":

This is a custom value will be used as custom parameter field name in FB event's custom data

c. The configuration should look similar to the below:



- d. Create a new Custom Attribute by clicking
- e. Choose Page Details > JavaScript Variable
- f. Set the attribute name to **fb_ts**
- g. Variable name to sas_ts
- h.Return: Everything
- i. Attribute data type: **Character**
- j. Personally identifiable information: Unchecked (note that we keep this unchecked so we can connect other information from other systems and connect it with our own identifiers if needed later in our data)



k. Create another new Custom Attribute by clicking



I. Choose Page Details > JavaScript Variable

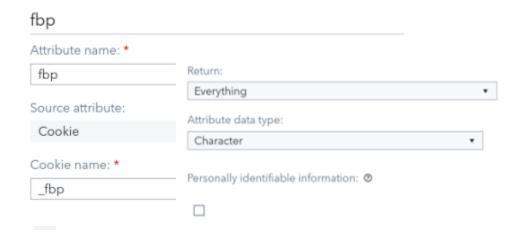
fb_ts comes from the "SAS Support Code" and they designed for data mapping and API integration which will be covered in later sections.

m. Create a new Custom Attribute by clicking n.Choose **URL Details > Cookie**

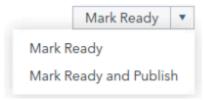
p. Variable name to **_fbp**

o. Set the attribute name to fbp

q.Return: Everything



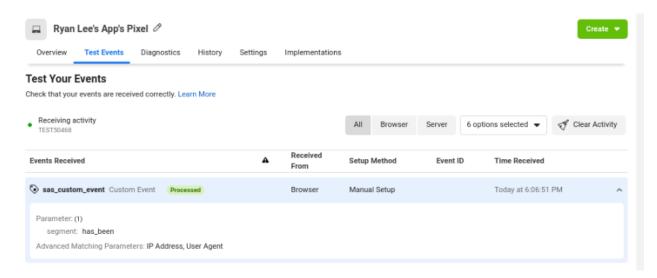
- 8. click the button to save the Custom Event
- 9. type in "Event: FB Pixel" (this is just a placeholder name, you can use any event you want), then click Save
- 10. Go to the Orchestration Tab
 - r. Click on Mark Ready and Publish from drop-down menu:



s. Click **Yes** when prompted by **Publishing the item will change the status to Scheduled or Active**

5.4 Verification

Here we will verify if the Pixel is properly sending data to FB servers. Using the values we send to Facebook we will see if those values show up in the **Overview** section of the FB interface, our for testing purpose, it can be display Test Your Events Tab:



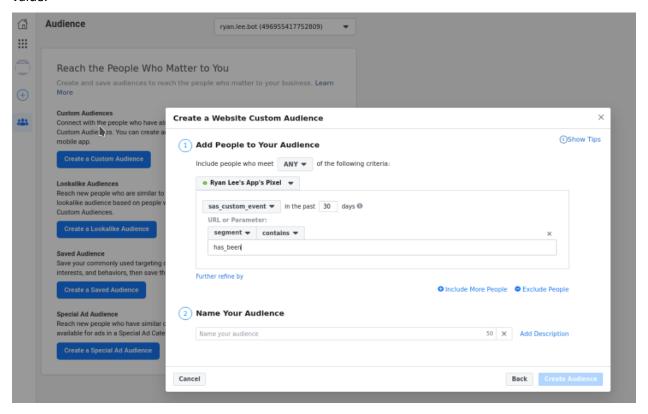
Once verified we can then use these in segments for activation on other platforms connected to FB

5.5 Example

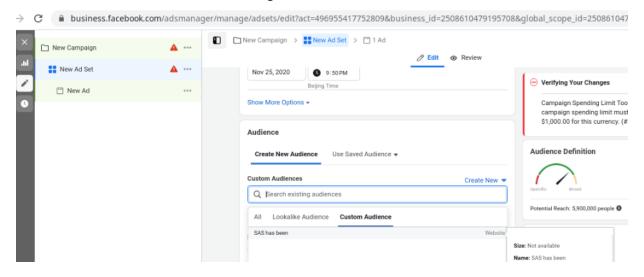
5.5.1 EXAMPLE: USE FB EVENT IN OTHER PLATFORMS

Once FB pixel is active (has been tracked), the data will be available in FB Audience for define as Custom Audience Group:

FB Audience > Click on "Create a Custom Audience" > select "sas_custom_event" from the drop down menu > click on "refine by" and "select URL/Parameter" > choose "segment" then type in "has_been" value.



Then, it will become Custom Audience Target which can be choose under Facebook Ad:



6 API (Server-to-Server)

This section will show how to make a server-to-server connection using a CI360 Connector. This doesn't require any bridge code as it is a one-way communicator from the CI360 tenant to the Facebook servers. This can also be proxied through on-premise agent if needed.

6.1 Requirements

6.1.1 Add the Facebook pixel to the web (known user)

Below is the basic Facebook Pixel base code to embed to the website for tracking audience activities outside Facebook Apps or Pages and using Email as **identifier**:

```
<!-- Facebook Pixel Code -->
<script>
!function(f,b,e,v,n,t,s)
{if(f.fbq)return;n=f.fbq=function(){n.callMethod?
n.callMethod.apply(n,arguments):n.queue.push(arguments)};
if(!f._fbq)f._fbq=n;n.push=n;n.loaded=!0;n.version='2.0';
n.queue=[];t=b.createElement(e);t.async=!0;
t.src=v;s=b.getElementsByTagName(e)[0];
s.parentNode.insertBefore(t,s)}(window, document,'script',
'https://connect.facebook.net/en US/fbevents.js');
fbq('init', '<facebook_pixel_id>', {em: '<email>'});
fbq('track', 'PageView');
</script>
<noscript><img height="1" width="1" style="display:none"</pre>
src="https://www.facebook.com/tr?id=<facebook pixel id>&ev=PageView&noscript=1"
/></noscript>
<!-- End Facebook Pixel Code -->
```

Note. The {em: '<email>'} properties can be removed for anonymous user.

6.1.2 SAS Support Code for FB

With SAS, we required to embed the below code right after the Facebook Pixel for mapping FB activities and SAS Events in later sections:

```
<!-- SAS support code for FB -->
<script>
async function digestMessage(a){const b=new TextEncoder().encode(a),c=await
crypto.subtle.digest("SHA-256",b),d=Array.from(new
Uint8Array(c)),e=d.map(a=>a.toString(16).padStart(2,"0")).join("");return e}
var sas_em = await digestMessage(Object.values(fbq.instance.pixelsByID)[0].userData.em);
var sas_ts=0|Date.now()/le3;
</script>
<!-- END SAS support code for FB -->
```

6.1.3 CI360 Tag Deployed

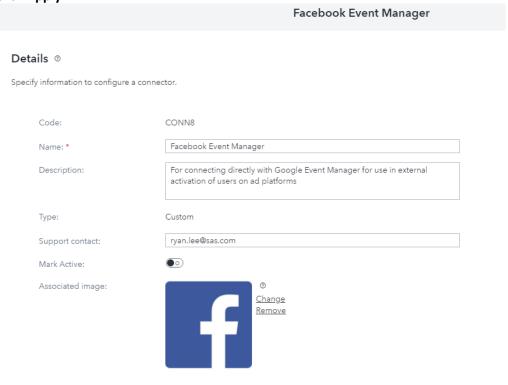
Add in the CI360 tag into the site (note that if you're making several pixel calls for different services, it would be best practice to deploy the below SAS Pixel Placeholder code with several different div's using

different IDs, as setting them up the same way will conflict). Please copy the code from your CI360 from the **General Settings > SAS Tag Instruction** section.

```
SAS Ci360 Tag Example:
<!-- SAS Ci360 Tag -->
<script>
(function(ci){
    var ef=window[ci]=function(){
        return ef.q.push(arguments);
    };
    ef.q=[];ef.a={};
})('ci360');
</script>
<script async data-efname='ci360' id='ob-script-async'
        a='<tenant ID>'
        src='https://<server>/js/ot-all.min.js'></script>
```

6.2 Connector setup

- a. Navigate to General Settings > Connectors
- b. Click on the button
- c. Enter the details
 - i. Name: Facebook Event Manager
 - ii. Description: *Anything you want can go here to describe this*
 - iii. Support Contact: Set this up as anyone that would receive emails in case of errors
 - iv. Set as **Active** by changing the slider from **O** to **C**
 - v. Attach an image if you want (can find an image through Google for "Facebook" or otherwise)
 - vi. Click Apply



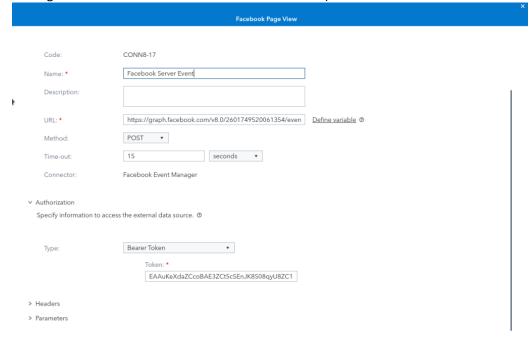
- d. Re-Open the Facebook Connector
- e. Click **New Endpoint**
 - i. Name: Facebook Server Event
 - ii. Description: *Anything you want can go here to describe this*
 - iii. URL:

https://graph.facebook.com/v8.0/<pixel_id>/events?data=[{event_name:"{{\$eventname}}",event_time:{{\$timestamp}},user_data:{fbq:

"{{\$fbq}},em:{{\$fbem}}"},custom_data:{{{\$eventcategory}}:"{{\$event}}"}}]& test_event code=TEST50468

(note the **test_event_code** highlighted in the URL, it is the flag that can be found under Facebook Pixel's Test Events Tab to allow instant result from the Server Events)

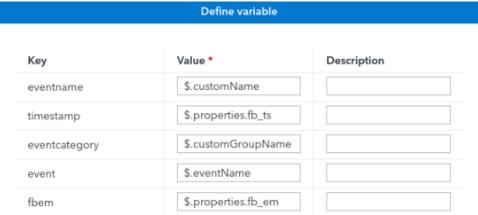
- iv. Method: POST
- v. Time-out: 15 seconds
- vi. Authorization: **Bearer Token** (the Access Token is proved from Facebook Event Manager > Pixel > Generate an Access Token section)



vii.

- f. Click on **define variables** (this will replace the {{variables}} in the URL with values from the JSON payload that will be sent each time the connector is invoked and these values will be populated from values we create in the custom event and task we create). Unfortunately at this time, there are no easy way to view the JSON payloads without setting up your own server to capture these values first but once you know their locations you can use JSON path selectors to define them (Check appendix for website to test your JSON payload and selectors) Check to see if merge tags available from other.
 - i. Set eventname to "\$.customName"
 - ii. Set timestamp to "\$.properties.fb ts"
 - iii. Set fbq to "\$.properties.fbq"
 - iv. Set eventcategory to "\$.customGroupName"

v. Set event to "\$.eventName"



- vi. Click **OK**
- vii. Click Save to save the endpoint
- viii. In the **Endpoints** section, click **1** to enable the endpoint
- ix. Click Apply
- x. You will now have a new connector as show below with 1 endpoint setup for Facebook Event Manager

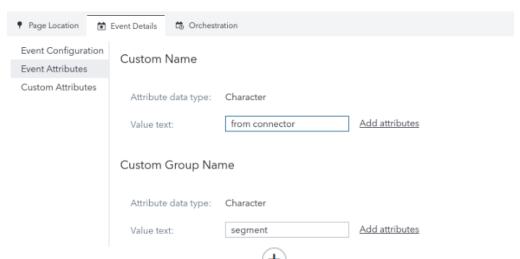


Optional: Setup the connector to proxy through an on-premise agent

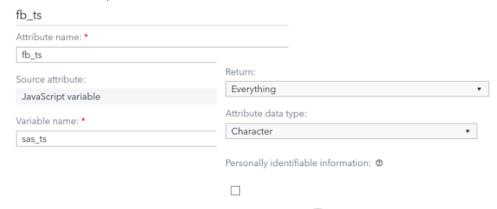
6.3 Event setup

This event will be setup to create to collect the Facebook Browser ID from the client's computer. This ID we want is stored in the _fbp cookie. As well as the event time stamp which we added into the facebook pixel code on the page. Note that this event won't necessarily fire our external event and Server-to-Server communication through the API, we will do that with an **External System Task** using this event as a trigger which we can further customize to add additional conditions and segmentation before sending data to FB.

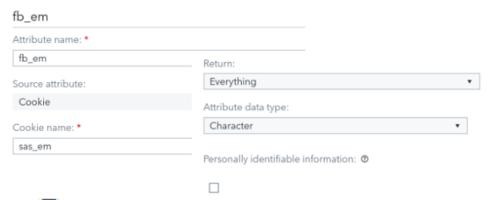
- a. Click Events in the left navigation menu
- b. Create a new event by clicking on
- c. You can create any type of event, but for this we will create a **Custom Event** based on a **Page View**
- d. Choose the page you want this to fire on (this could simply be every page if you restrict using segments in a later step, or it could be specific pages)
- e. Set the **Custom Name** and the **Custom Group Name**, note that these are the values that will be sent to Facebook. (Write these down)



- f. Create a new Custom Attribute by clicking
- g. Choose Page Details > JavaScript Variable
- h. Set the attribute name to fb_ts
- i. Variable name to sas_ts
- j. Return: Everything
- k. Attribute data type: Character
- Personally identifiable information: Unchecked (note that we keep this unchecked so we can connect other information from other systems and connect it with our own identifiers if needed later in our data)



- m. Create another new Custom Attribute by clicking
- n. Choose Page Details > JavaScript Variable
- o. Set the attribute name to sas_em
- Personally identifiable information: **Unchecked** (note that we keep this unchecked so we can connect other information from other systems and connect it with our own identifiers if needed later in our data)



q. Click to save the event naming it whatever you want (remember the event name won't be used to send to FB, the Event Attributes will be used instead)

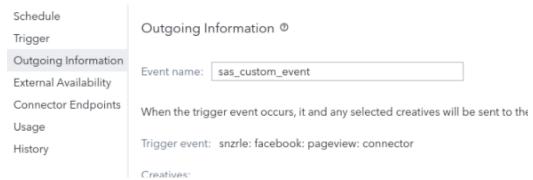
6.4 Task Setup

Here we will create an external system task to invoke the connector using the event we created last step as a trigger. In the case of FB, all the information is sent through link parameters so we don't need any bridge code, but if needed we can use the content creation combined with merge tags to send additional information to the external system.

- a. Click on Tasks in the side panel
- b. Create a new task by clicking on
- c. Choose External System
- d. Here you have the choice to select an Agent (even if you are using an on-premise agent to send your connector through, selecting an Agent is not required here) so simply click on
 - Select Connector Endpoints
 to skip this section
- e. Check the **Endpoint Name/Connector Name** we set before (Facebook Event Manager/Facebook Server Events)
- f. Click Create Task
- g. Navigate to the **Orchestration Tab > Trigger** section and specify the Event you created in last step



- a. Click Ok
- b. Go to Outgoing Information
- c. Type in **Event name to** "sas_custom_event" this value is going to display in FB.

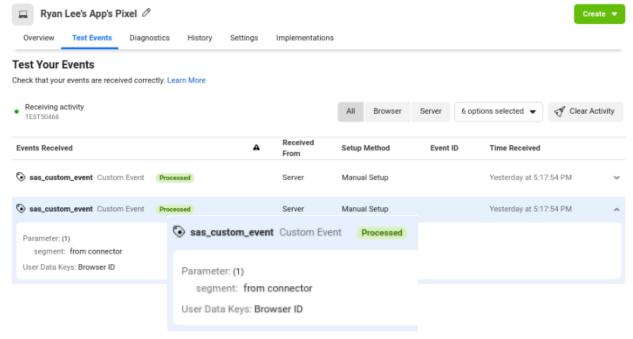


d. Optional

- i. Add any other targeting criteria you want based on your requirements by navigating to the **Targeting** tab
- ii. Add a schedule making sure this task only fires during specific times

6.5 Verification

Here we will verify if the Pixel is properly sending data to FB servers. Using the values we send to Facebook we will see if those values show up in the **Custom Report** section of the GA interface. The Custom Report setting as per screen shot:



Appendix

7.1 External References

Item	Link
Sending Data to	https://developers.facebook.com/docs/marketing-api/conversions-api/using-
(Pixel/API)	the-api
Upload Custom	https://developers.facebook.com/docs/marketing-
Audience	api/audiences/guides/custom-audiences
JSON Selector (API/Connectors)	http://jsonpath.com/

7.2 Source Code

7.2.1 Facebook Pixel Example:

```
Note: You do need to replace "<pixel_id>" part of the code!
<html>
<head>
<meta content="text/html;charset=UTF-8" http-equiv="Content-Type" /</pre>
<title></title>
</head>
<body>
<!-- Facebook Pixel Code -->
<script>
!function(f,b,e,v,n,t,s)
{if(f.fbq)return;n=f.fbq=function(){n.callMethod?
n.callMethod.apply(n,arguments):n.queue.push(arguments)};
if(!f. fbq)f. fbq=n;n.push=n;n.loaded=!0;n.version='2.0';
n.queue=[];t=b.createElement(e);t.async=!0;
t.src=v;s=b.getElementsByTagName(e)[0];
s.parentNode.insertBefore(t,s)}(window, document, 'script',
'https://connect.facebook.net/en US/fbevents.js');
fbq('init', '<pixel_id>');
fbq('track', 'PageView');
</script>
<noscript><img height="1" width="1" style="display:none"
src="https://www.facebook.com/tr?id=<pixel id>&ev=PageView&noscript=1"
/></noscript>
<!-- End Facebook Pixel Code -->
</body>
</html>
```

7.2.2 Facebook API Endpoint

 $https://graph.facebook.com/v8.0/<fb_pixel_id>/events?data=[\{event_name:"\{\{\$eventname\}\}",event_time:\{\{\$timestamp\}\},user_data:\{\{fbq: "\{\{\$fbp\}\}"\},custom_data:\{\{\{\$eventcategory\}\}:"\{\{\$event\}\}"\}\}] \& test_event_code=TEST50468 | test_event_code=TEST50468 | tes$

- i. Set eventname to "\$.customName"
- ii. Set timestamp to "\$.properties.fb_ts"
- iii. Set fbq to "\$.properties.fbq"
- iv. Set eventcategory to "\$.customGroupName"

٧.

7.2.3 SAS CI360 Tag Example Code

Note: This is for examples use only, please copy the code from your CI360 from the General Settings > SAS Tag Instruction section

```
SAS Ci360 Tag Example:
<!-- SAS Ci360 Tag -->
<script>
(function(ci){
    var ef=window[ci]=function(){
        return ef.q.push(arguments);
    };
    ef.q=[];ef.a={};
})('ci360');
</script>
<script async data-efname='ci360' id='ob-script-async'
    a='<tenant ID>'
    src='https://<server>/js/ot-all.min.js'></script>
```

7.2.4 SAS Generic Pixel Placeholder

For generic spot creation

```
<!-- SAS Pixel Placeholder --> 
<div id="sas_pixel"></div>
```

7.2.5 SAS Facebook Placeholder

For Facebook spot creation

```
<!-- SAS Pixel Placeholder --> <div id="sas_facebook_pixel"></div>
```

7.3 **Connector JSON Payloads**

Below is a cut down version of the json payload for reference, you can use http://www.jsonpath.com/ to find the value you want using JSON selector notation

7.3.1.1 Custom Event

Example JSON Selectors

Selector value (using the JSON example below	Selector	Value (using the JSON example below)
----------------------------------------------	----------	--------------------------------------

\$.guid	d4a1b51b-cc9b-4b25-8d76-1b5021625a5a
\$.eventName	Outgoing_1
\$.customName	has_been
\$.customGroupName	segment
\$.sessionID	e105513fe064112b551dccc3
\$.channelType	external
\$.date.generatedTimestamp	1597647116198
\$.externalTenantId	Abcdef0123456789
\$.internalTenantId	xxxx
\$.identityId	2d25b302-6ee9-35fc-ba41-8c3033f90266
\$.visitId	930981fa7e3a4c58623bc80d
\$.properties.ga_cid	1832800649.1603260950
\$.properties.externalCode	TSK_104
\$.identity.identityId	2d25b302-6ee9-35fc-ba41-8c3033f90266
\$.identity.sessionId	e105513fe064112b551dccc3

Ex. Using the date value below in a connector variable you would use \$.date.generatedTimestamp and the value returned would be 1597647116198

7.3.1.2 Example JSON Payload

It is highly recommended that you setup a server to receive the JSON payloads in order to see any differences and confirm the code is correct. This should be used for reference only!

```
"guid": "d4a1b51b-cc9b-4b25-8d76-1b5021625a5a",
```

[&]quot;apiEventKey": null,

[&]quot;eventDesignedId": "d780a02f-2e96-4e46-a80a-9885e23bb4ec",

[&]quot;eventDesignedName": "event", //Defined in the external task under Orchestration > Outgoing Information > Event Name

[&]quot;eventName": "Outgoing_1", //Defined in the external task under Orchestration > Outgoing Information > Event Name

[&]quot;customName": "has_been", //Custom Name defined in the trigger event (custom event) under Event Details > Event Attributes > Custom Name > Value text

```
"eventType": "outboundSystem", //Defines which kind of task, external tasks are outboundSystem tasks, events
would be customEvent etc.
 "sessionId": "e105513fe064112b551dccc3", //Defines the sessionID of the current user
 "channelId": "6ffeb2f866cb3044264262ab",
 "channelType": "external", //Defines the channelType
 "ipAddress": null,
 "date": {
  "generatedTimestamp": 1597647116198, //Timestamp in Unix Epoch format
},
 "externalTenantId": "abcdef0123456789", //The external Tenant ID (used in the tag on the site)
 "internalTenantId": xxxx, //The internal Tenant ID
 "identityId": "2d25b302-6ee9-35fc-ba41-8c3033f90266", //The datahub ID used to define a user
 "page": {
  "loadId": "9df574667a3a4c587dca6ec7",
  "viewSequenceNum": 0,
},
  "visitId": "930981fa7e3a4c58623bc80d", //The visitID for the user associated with this event
  "visitorGroup": null,
  "visitorState": "returning",
  "visitSequenceNum": null
 },
 "properties": { //This section contains most of the custom attributes and custom properties
  "ga_cid": "1832800649.1603260950",
  "parent eventname": "load".
  "externalCode": "TSK_104", //The external code defined in the external task under Properties
  "event datetime utc": "1597647116198", //Event time in Unix Epoch
  "parent event": "customEvent",
  "contributing guid 1": "a217d4c4-34f9-460a-afb7-0b7ade117c7e"
},
 "identity": {
  "identityId": "2d25b302-6ee9-35fc-ba41-8c3033f90266",
  "identityType": null,
  "identitySource": null,
  "identityEventName": null,
  "identityAttribute": null,
  "identityAssociation": null,
  "userId": null,
  "visitId": null,
  "ipAddress": null,
  "sessionId": "e105513fe064112b551dccc3",
  "visitorId": null,
  "loginEventType": null,
  "loginType": null,
  "loginValue": null
},
 "customGroupName": "adobeaam",
 "extendedCustomEventWithRevenueFlag": false,
 "parentEventUid": "9155c61d-dd69-4fbb-9b49-c6f73490b900"
}
```