Set Up a Google Analytics 4 Integration Using Google Tag

This content is for clients that have previously integrated an earlier version of Google Analytics using Google tag (gtag.js) or Universal Analytics (analytics.js) or legacy Google Analytics (ga.js) with Monetate and now need to update that integration after creating a Google Analytics 4 property.

If you have *never* integrated your Google Analytics setup with Monetate, then follow the instructions in the Monetate Knowledge Base Google Analytics documentation for clients that use Google tag (gtag.js).

If you use Google Tag Manager, then follow the instructions in Integrate with Google Analytics When Using Google Tag Manager.

Prerequisites

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On July 1, 2023, Google's standard Universal Analytics properties stopped processing data. If you didn't do so before that date, you must create a custom report in the Monetate platform that uses one of the code samples written for Google Analytics 4 (GA4) with Google tag and then use that custom report for any active experiences.

If your account has a custom Google Analytics integration created by Monetate's Development Services team, then you must submit a request using the Monetate Technical Support portal (support.monetate.com) for the integration to be updated.

You must have a GA4 property before you can create the custom report in Monetate. Refer to Google's Make the switch to Google Analytics 4 documentation to learn how to create the property.

If you don't create a GA4 property, then your existing Google Analytics integration with Monetate used the legacy version of Google Analytics until July 1, 2023, when Google's standard Universal Analytics properties stopped collecting data.

Creating the Custom Report

Follow these steps to create a custom Google Analytics report that's compatible with your GA4 property.

1. Click the settings icon in the top navigation bar and then select Integration.



2. Click **GOOGLE ANALYTICS** in the list of third-party analytics reports.

Integration									
Third-Party Analytics	Tag	Inspector	API	SSO	First-Party Proxy				
Control - Party Analytics Monetate provides analytics for all experiences but can also push experience data to third-party platforms. You can enable third-party reporting for each platform by using the toggle on the platform setup screen or by configuring Third-Party Analytics within an individual experience.									
SITECATALYST GOOGLE ANALYTICS COREMETRICS HOTJAR	This I Since	report is currently i this report is curre	in use. ently being	used, it canı	not be edited or deleted.				

Confirm that the existing Google Analytics report uses a legacy version of Google Analytics.
 a. Click SHOW THE CODE BEING USED TO REPORT DATA.

Integration												
Third-Party Analytics	s Tag	Inspector	API	SSO	First-Party Proxy							
Third-Party Anal	ytics					⊕ ADD REPORT ✓						
Monetate provides analytics for all experiences but can also push experience data to third-party platforms. You can enable third-party reporting for each platform by using the toggle on the platform setup screen or by configuring Third-Party Analytics within an individual experience.												
GOOGLE ANALYTICS	Google Analytics Configuration											
	Enable by default for all new experiences III NO Data will be reported in the following formats:											
					No Control:	"Experience Name"						
					Experiment:	"Experience Name - Experiment" "Experience Name - Control"						
					Split:	"Experience Name - A:Split A Name"						
						"Experience Name - A:Control" "Experience Name - B:Split B Name"						
						"Experience Name - B:Control"						
					SHOW THE COD	E BEING USED TO REPORT DATA.						
	CREATE	CANCEL										

b. Confirm that the code *does not* include gtag.

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Many accounts with a standard Google Analytics integration use code much like the one shown in the screenshot. Do not confuse the reference to Google's Universal Analytics (analytics.js) in line 3 and to its Legacy Analytics (ga.js) in line 12 with GA4 (gtag.js).

Third-Party Analytics	
<pre>Monetate provides analytics for all experiences but can also push experience data to third-paraby using GOOGLE 3 4 5 5 5 5 5 5 5 5 5</pre>	<pre>tv platforms. You.can enable third-party reporting for each platform ive on the page. []; trackers[0].get("name") : "t0"; e", campaign.key, campaign.split, options); ? windowgatgetTrackers() : []; ame ? trackers[0]getHame() : ""; Event" : "_trackEvent"; ate calculations m.key, campaign.split, null, true]);</pre>
	CANCEL

4. Click ADD REPORT and, if necessary, select Custom.

Integration											
Third-Party Analytics	Tag	Inspector	API	SSO	First-Party Proxy						
Third-Party Analyti Monetate provides analytics fo by using the toggle on the platf	Third-Party Analytics Tag Inspector API SSO First-Party Proxy Third-Party Analytics Monetate provides analytics for all experiences but can also push experience data to third-party platforms. by using the toggle on the platform setup screen or by configuring Third-Party Analytics within an individual experience.										
GOOGLE ANALYTICS Google Analytics Configuration											

5. Give the report a name that differentiates it from the existing Google Analytics report.

Third-Party Analytics	Tag	Inspector	API	SS0	First-Party Proxy
Third-Party Analytic Monetate provides analytics for by using the toggle on the platfo	CS all experien orm setup so	ices but can also p creen or by configu	ush experi ring Third-	ence data to Party Analyi	• ADD REPORT to third-party platforms. You can enable third-party reporting for each platform ytics within an individual experience.
GOOGLE ANALYTICS CI SITECATALYST TIT DECIBEL INSIGHT COREMETRICS Ja HOTJAR CUSTOM REPORT 5	ustom Re custom Rep vaScript 1 2 for 3 4 cc able by defa	cancel	yuration variable campaig %s", cam	is an arr ns.length paigns[i] III NO	rray of experiences active on the page. h; i++) { .key, campaigns[i].split);

6. Copy one of the code samples for GA4 from Google Analytics 4 Code Samples, and then paste it into the code editor.

Third-Party Analytic	s Tag	Inspector	API	SS0	First-Party Proxy
Third-Party Anal Monetate provides analytic by using the toggle on the p	ytics s for all experie platform setup	nces but can also screen or by config	push experie uring Third-f	ence data t Party Analy	• ADD REPORT to third-party platforms. You can enable third-party reporting for each platform tics within an individual experience.
GOOGLE ANALYTICS SITECATALYST DECIBEL INSIGHT COREMETRICS HOTJAR	Custom F Title GA4 JavaScript	Report 5 Confi	guration		
CUSTOM REPORT 5	Enable by de	The `campaigns` (var i = 0; i console.log("%s: fault for all new exp CANCEL	variable < campaig %s", cam	is an ar ns.length paigns[i]	ray of experiences active on the page. ; i++) { .key, campaigns[i].split);

7. Leave Enable by default for all new experiences set to NO.

ADD REPORT

Third-Party Analytics

Monetate provides analytics for all experiences but can also push experience data to third-party platforms. You can enable third-party reporting for each platform by using the toggle on the platform setup screen or by configuring Third-Party Analytics within an individual experience.

	GOOGLE ANALYTICS	Custom Report 5 Configuration
	SITECATALYST	Title
	DECIBEL INSIGHT	GA4
	COREMETRICS	JavaScript
	HOTJAR	
I	CUSTOM REPORT 5	<pre>// The `campaigns` variable is an array of experiences active on the page. if (typeof(window.gtag) === "function") { for (var i = 0; i < campaigns.length; i++) { var campaign = campaigns[i]; window.gtag('event', campaign.key, { 'event_category': 'Monetate', 'event_label': campaign.split, 'non_interaction': true }); }</pre>
		Enable by default for all new experiences III NO
		CREATE CANCEL

8. Click CREATE.

Third-I	Party Analy	ytics	REPORT
Monetate by using th	provides analytics le toggle on the p	s for all experiences but can also push experience data to third-party platforms. You can enable third-party reporting for each platform setup screen or by configuring Third-Party Analytics within an individual experience.	platform
GOOGLE AN	IALYTICS	Custom Report 5 Configuration	
SITECATAL	YST	Title	
DECIBEL IN	SIGHT	GA4	
COREMETR	ICS	JavaScript	
HOTJAR			
CUSTOM R	EPORT 5	<pre>// The `campaigns` variable is an array of experiences active on the page. if (typeof(window.gtag) === "function") { for (var i = 0; i < campaigns.length; i++) { var campaign = campaigns[1]; window.gtag('event', campaign.key, { 'event_category': 'Monetate', 'event_label': campaign.split, 'non_interaction': true }); }</pre>	
		Enable by default for all new experiences III NO	
		CREATE CANCEL	

Test the new report configuration to ensure it works as expected. *Do not* add it to any active Web experiences nor enable it for all new Web experiences until you test it.

If you have multiple legacy Google Analytics reports in one domain, ensure that you create and test a new GA4compatible report for each of them.

Google Analytics 4 Code Samples

Copy and paste one of these code samples into the code editor in step 6 of Creating the Custom Report.

Google Analytics 4 with Google Tag

Use this code if you've transitioned to Google Analytics 4 and the Google tag (gtag.js), formerly called the global site tag.

This code requires no special modifications.

```
var max = 50;
setTimeout(function()) {
  if (typeof(window.gtag) === "function") {
    for (var i = 0; i < campaigns.length; i++) {
      var campaign = campaigns[i];
      window.gtag('event', campaign.key, {
           'event_category': 'Monetate',
           'event_label': campaign.split,
           'non_interaction': true
      });
    }
  } else if (max--) {
    setTimeout(arguments.callee);
  }
}, 100);
```

Google Analytics 4 with Google Tag (Minimal)

This code is the most basic one for implementing Google Analytics 4 and the Google tag (gtag.js), formerly called the global site tag.

```
// The `campaigns` variable is an array of experiences active on the page.
if (typeof(window.gtag) === "function") {
  for (var i = 0; i < campaigns.length; i++) {
    var campaign = campaigns[i];
    window.gtag('event', campaign.key, {
        'event_category': 'Monetate',
        'event_label': campaign.split,
        'non_interaction': true
    });
  }
}</pre>
```

Google Analytics 4 with Universal Analytics Compatibility

Use this code if you have already created a GA4 property but are still using Universal Analytics for reports.

On July 1, 2023, Google's standard Universal Analytics properties stopped processing data.

```
// The `campaigns` variable is an array of experiences active on the page.
if (typeof(window.gtag) === "function") {
for (var i = 0; i < campaigns.length; i++) {
  var campaign = campaigns[i];
  window.gtag('event', campaign.key, {
   'event category': 'Monetate',
   'event_label': campaign.split,
   'non interaction': true
  });
} else if (typeof(window.ga) === "function") {
 // Universal Analytics (analytics.js)
  var trackers = window.ga.getAll ? window.ga.getAll() : [];
  var trackerName = trackers.length && trackers[0].get ? trackers[0].get("name") : "t0";
  for (var i = 0; i < campaigns.length; i++) {
    var campaign = campaigns[i];
    var options = \{non|nteraction: 1\};
    window.ga(trackerName + ".send", "event", "Monetate", campaign.key, campaign.split, o
  }
} else {
 // Legacy Analytics (ga.js)
 // Initialize Google Analytics object
  window. gag = window. gag [] [];
  var trackers = window. gat && window. gat. getTrackers ? window. gat. getTrackers() : [];
  var trackerName = trackers.length && trackers[0], getName ? trackers[0], getName()) : "";
  var eventString = trackerName ? trackerName + ", trackEvent" : "_trackEvent";
  // Report trackEvent for each campaign
  for (var i = 0; i < campaigns.length; i++) {
    var campaign = campaigns[i];
    // Non-interaction events are excluded in bounce rate calculations
    window. gaq.push([eventString, "Monetate", campaign.key, campaign.split, null, true]);
  }
                                                                                            •
```

Testing the New Report

You can ensure the new GA4 report works from the report configuration page by adding the JavaScript console.log() method to whichever GA4 report code you input into the code editor.

The following example is the Google Analytics 4 with Google Tag (Minimal) code with the console.log() method added.

```
if (typeof(window.gtag) === "function") {
  for (var i = 0; i < campaigns.length; i++) {
    var campaign = campaigns[i];
    window.gtag('event', campaign.key, {
        'event_category': 'Monetate',
        'event_label': campaign.split,
        'non_interaction': true
    });
  }
  console.log("Google Analytics 4");
}</pre>
```

Follow these steps to test the new report.

1. Add the console.log() method to the GA4 report code.

	Third-Party Analy	ytics
	Monetate provides analytics by using the toggle on the p	s for all experiences but can also push experience data to third-party platforms. You can enable third-party reporting for each platform latform setup screen or by configuring Third-Party Analytics within an individual experience.
	GOOGLE ANALYTICS	GA4 Configuration
	SITECATALYST	Title
	DECIBEL INSIGHT	GA4
		JavaScript
I	GA4	<pre>// The `campaigns` variable is an array of experiences active on the page. if (typeof(window.gtag) === "function") { for (var i = 0; i < campaigns.length; i++) { var campaign = campaigns[i]; window.gtag('event', campaign.key, { 'event_category': 'Monetate', 'event_label': campaign.split, 'non_interaction': true }); 10 } for console.log("Google Analytics 4"); } </pre>
		Enable by default for all new experiences III NO
		SAVE O

2. Click the preview icon.

Third-Party An	alytics
Monetate provides anal by using the toggle on t	ytics for all experiences but can also push experience data to third-party platforms. You can enable third-party reporting for each platform he platform setup screen or by configuring Third-Party Analytics within an individual experience.
GOOGLE ANALYTICS	GA4 Configuration
SITECATALYST	Title
DECIBEL INSIGHT	GA4
COREMETRICS	lavaScrint
HOTJAR	ourdoon
GA4	<pre>// The `campaigns' variable is an array of experiences active on the page. if (typeof(window.gtag) === "function") { for (var i = 0; i < campaigns.length; i++) { var campaign = campaigns[1]; window.gtag(`event', campaign.key, { 'event_category: 'Monetate', 'event_category: 'Monetate', 'event_category: 'Monetate', 'on_interaction': true }); 10 } 11 console.log("Google Analytics 4"); 12 }</pre>
	Enable by default for all new experiences III NO

3. While viewing the new browser tab or window in which your site loaded in Preview Mode, open your browser's developer tools and then switch to its console.

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	ΜΟΝΕΤΑΤΕ													
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						- NC				- A				
× EXIT	PREVIEW N		•				Previewi	ng: GA4						
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4. Ensure the message that you used with the console.log() method in the GA4 report code is present in the console.

MONETATE

	SHOP ALL	BATH	GAR	DEN	KITCHEN	PUBLICA	TIONS	UTILITY	SHIPPIN	G & RETURN	NS CONTACT U	S BLO	G RSS	SYNDICAT	ION	
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Goog	le Analytics 4														VM478:8	
>																

5. In the Monetate platform, remove the console.log() method from the GA4 report code, set **Enable by** default for all new experiences to YES, and then click SAVE.

	Third-Party A	nalytics ③ ADD	REPORT
	Monetate provides and by using the toggle on	alytics for all experiences but can also push experience data to third-party platforms. You can enable third-party reporting for each the platform setup screen or by configuring Third-Party Analytics within an individual experience.	platform
	GOOGLE ANALYTICS	GA4	
	SITECATALYST	Title	
	COREMETRICS HOTJAR <u>GA4</u>	GA4 JavaScript	
I		<pre>// The `campaigns` variable is an array of experiences active on the page. if (typeof(window.gtag) === "function") { for (var i = 0; i < campaigns.gent; i++) { var campaign = campaigns.[i]; window.gtag('event', campaign.key, {</pre>	
			8

After you've created and tested the new GA4-compatible report, you can enable it for each active Web experience for which the legacy Google Analytics report is enabled.

Enabling the New Report in Active Experiences

Follow these steps to add the new GA4 report to an individual Web experience.

1. Click the settings icon in the top navigation bar and then select Integration.



2. Click the entry for the legacy Google Analytics report in the list of third-party analytics reports.



3. Scroll down to the View Associated Experiences table.

Third-Party Analytics					
Monetate provides analytics for all experiences but can also push experience data to third-party platforms. You can enable third-party reporting for each platform by using the toggle on the platform setup screen or by configuring Third-Party Analytics within an individual experience.					
GOOGLE ANALYTICS SITECATALYST DECIBEL INSIGHT COREMETRICS	This report is currently in use. Since this report is currently being used, it cannot be edited or deleted. Oogle Analytics Configuration				
HOTJAR	Enable by default for all new experiences YES III	Data will be reported in the following formats:			
UA4		No Control: "Experience Name" Experiment: "Experience Name - Experiment" "Experience Name - Control" Split: "Experience Name - A:Split A Name" "Experience Name - A:Control" "Experience Name - B:Split B Name" "Experience Name - B:Control"			
	SAVE				
\rightarrow	View Associated Experiences When a report is being used it cannot be edited or deleted.				
	NAME	ТҮРЕ			
	UK Promo	Active			
	Clearance Banner	Active			
	Checkout Flow MVT	Active			
	Homepage Change	Active			

- 4. Click the name of an experience in the table to open it in Experience Editor.
- 5. Click the additional options menu (...) on the Experience Editor page, and then click **Third-Party Analytics**.

BACK TO WEB EXPERIENCES					
Winter Clearance Sale Banner 🜌	V DUPLICATE V				
	View Experience History				
SPLITTEST O DRAFT Created: Feb 22 2023, 2:56 PM	Third-Party Analytics				
+ ADD TAGS	Notes				
		Import Actions >			
WHY to measure Conversion rate between 2 splits and control		Export Actions >			
WHO For all visitors		Promote Experience >			
WHAT A show Tippy Top Banner	25% Design A	Estimated RPS Value			
B show Tippy Top Banner	25% Design B	Administrator Lock			
- Control	50% >	Delete			

6. Find the new GA4-compatible report on the Third-Party Analytics modal, and then toggle its setting to **YES**.

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Monetate provides analytics for all experiences, but experience data can additionally be reported to third-party analytics platforms. Additional platforms can be added via the Integration page.

Report analytics data to the following platforms:

Google Analytics	YES III			
SiteCatalyst	YES III			
Decibel Insight	III NO			
Coremetrics	III NO			
Hotjar	III NO			
GA4				
Report Label				
Winter-Clearance-Sale-Banner				
Group/split names will be appended automatically. For an experiment/control experience with a Report Label of "New-Experience," the items reported would be "New-Experience - Control" and "New-Experience - Experiment."				

7. If you don't plan to archive the legacy Google Analytics report and if it's currently enabled for this experience, then toggle its setting to **NO**.

If you plan to archive the legacy Google Analytics report, skip this step. Archiving the report on the **Third-Party Analytics** tab of the Integration page automatically removes it from all experiences.

SAVE

CANCEL

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Monetate provides analytics for all experiences, but experience data can additionally be reported to third-party analytics platforms. Additional platforms can be added via the Integration page.

Report analytics data to the following platforms:

Google Analytics	YES III				
SiteCatalyst	YES III				
Decibel Insight	III NO				
Coremetrics	III NO				
Hotjar	III NO				
GA4	YES III				
Report Label					
Winter-Clearance-Sale-Banner					
Group/split names will be appended automatically. For an experiment/control experience with a Report Label of "New-Experience," the items reported would be "New-Experience - Control" and "New-Experience - Experiment."					

8. If you want to see a specific string for this specific experience in all the third-party analytics platforms enabled for it, enter that string into **Report Label**.

The text in **Report Label** auto-populates with the name of the experience. Monetate reports this string to the integrated third-party platform(s). Monetate also automatically creates labels for holdout variants based on your specified variant labels. For each variant included in the holdout, Monetate appends the label with - Holdout.

Monetate provides analytics for all experiences, but experience data can additionally be reported to third-party analytics platforms. Additional platforms can be added via the Integration page.

Report analytics data to the following platforms:

Google Analytics	YES III	
SiteCatalyst	YES III	
Decibel Insight	III NO	
Coremetrics	III NO	
Hotjar	III NO	
GA4	YES III	
Report Label		
Winter-Clearance-Sale-Banner		
Group/split names will be appended automatically. For an experiment/control experience with a		

Group/split names will be appended automatically. For an experiment/control experience with a Report Label of "New-Experience," the items reported would be "New-Experience - Control" and "New-Experience - Experiment."

SAVE CANCEL

9. Click SAVE to close the modal.

Monetate provides analytics for all experiences, but experience data can additionally be reported to third-party analytics platforms. Additional platforms can be added via the Integration page.

Report analytics data to the following platforms:



Repeat these steps for each active Web experience in the View Associated Experiences table that you want reported to your GA4 setup. After you've added the new report to all active Web experiences that you want reported to your GA4 setup, you can then archive the legacy Google Analytics report.

You can view a table of experiences that Monetate is reporting to the new GA4-compatible report on its respective custom report configuration screen of the **Third-Party Analytics** tab of the Integration page of the Monetate platform settings.

Third-Party Analy	rtics			
Monetate provides analytics using the toggle on the platfe	Monetate provides analytics for all experiences but can also push experience data to third-party platforms. You can enable third-party reporting for each platform using the toggle on the platform setup screen or by configuring Third-Party Analytics within an individual experience.			
GOOGLE ANALYTICS Image: Comparison of the point of				
GA4	Enable by default for all new experiences YES III	Data will be rep	orted in the following formats:	
		No Control:	"Experience Name"	
		Experiment:	"Experience Name - Experiment" "Experience Name - Control"	
		Split:	"Experience Name - A:Split A Name" "Experience Name - A:Control" "Experience Name - B:Split B Name" "Experience Name - B:Control"	
		SHOW THE CODE BEING USED TO REPORT DATA.		
	SAVE		•	
\rightarrow	• View Associated Experiences When a report is being used it cannot be edited or deleted.			
	NAME		ТҮРЕ	
	UK Promo	Active		
	Clearance Banner		Active	
	Checkout Flow MVT		Active	
	Homepage Change		Active	

At any time you can remove reporting to the new GA4-compatible report. Click the experience name in this table to open it in Experience Editor, then click the additional options menu (...), and then click **Third-Party Analytics**. In the Third-Party Analytics modal, toggle to **NO** the setting for the GA4-compatible report.

Archiving a Legacy Google Analytics Report

After you've enabled the new GA4-compatible report for each active Web experience, you can optionally archive the legacy Google Analytics report(s).



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While archiving a legacy Google Analytics report is optional, Monetate recommends doing so not only to prevent your users from potentially confusing the legacy report with the GA4 report if they adjust the enabled third-party analytics for an experience but also to prevent analytics from potentially being skewed by having two different Google Analytics reports enabled for the same experience. Follow these steps to archive a legacy Google Analytics report.

1. Click the legacy Google Analytics report in the list of third-party analytics reports.



	Third-Party Anal	ytics			
	Monetate provides analytics for all experiences but can also push experience data to third-party platforms. You can enable third-party reporting for ea by using the toggle on the platform setup screen or by configuring Third-Party Analytics within an individual experience.				can enable third-party reporting for each platform berience.
I	GOOGLE ANALYTICS SITECATALYST DECIBEL INSIGHT	This report is currently in use. Since this report is currently being used, it cannot be edited or deleted. Google Analytics Configuration			
HOTJAR Enable by default for all new experiences YES III Data will be report		orted in the following formats:			
				No Control:	"Experience Name"
				Experiment:	"Experience Name - Experiment" "Experience Name - Control"
				Split:	"Experience Name - A:Split A Name" "Experience Name - A:Control" "Experience Name - B:Split B Name" "Experience Name - B:Control"
				SHOW THE CODE BEING USED TO REPORT DATA.	
		S	SAVE		•

3. Click **OK** to confirm that you want to archive the report.



After you click **OK**, Monetate disables and removes the legacy Google Analytics report from the Third-Party Analytics modal for all existing experiences.