

5 Tips to Bulletproof Your Analytics Implementation



ObservePOINT

Digital properties—websites, mobile apps, and more—are central to your business. And customers spend an incredible **6+ hours a day online**, providing ample opportunities to collect and analyze data.

Your website and mobile app may have hundreds (or even thousands) of customer touch-points a day, hundreds of variables and dimensions, dozens of network calls per page, and various APIs that pull the data.

With all these moving parts, how do you ensure that analytics implementations are working properly across the board?

Tip 1

Learn the Tool

Seems obvious, right? But how often do we adopt an operational tool only to learn a few basic points and never take the time to dig any deeper? Or wait until after an installation is completed before getting trained on a new tool?

If you take the time to delve into a marketing or analytics tool and really learn how to operate it, your data collection journey—on both the analysis and implementation sides—will be smoother and you'll be able to plan an implementation that answers real business questions.

While learning to navigate a new tool, there are a variety of questions to consider, such as:

- Different tools have different default settings—what are yours?
- How does the tool's attribution work?
- Different attribution models impact the valuation of marketing channels—what are you most interested in measuring and how does the tool handle different attribution models?
- How can the tool segment traffic? And, to expand, do you know how to set segments up and combine them to get the most effective intersection of segments?
- What about duplicates? How does the tool handle duplicate visitors, page views, and events?

If you do not know how the solution handles the above, you might be using inflated or inaccurate data.

Ideas for Mastering Your Analytics Solution

Check your contract for training opportunities.

Training opportunities often go unnoticed and unused, but are a great source for accelerated learning. Most MarTech companies include training in their contracts, so be sure to check your contract and take advantage of training opportunities.

Join analytics groups and attend labs.

Learn from industry experts around the world in groups such as the Digital Analytics Association or the Analytics LABS sponsored by Adobe and ObservePoint.

Consume content.

There are hundreds of eBooks, white papers, training videos, articles, and blog posts dedicated to training on both basic and advanced capabilities of various analytics tools. Find sources you trust and consume their content regularly.

Organize internal training.

Senior analysts and architects within your own organization are an excellent resource for focused, customized training that offers great value.

Set aside some desk hours.

Spending even just one hour a week diving deeper into the tool and looking into additional resources can quickly increase your expertise.

Integrate training into every new implementation.

Technology is constantly advancing, and it is crucial to keep your team updated with analytics improvements.

Tip 2

Deepen Your Knowledge of JavaScript (and HTML)

Analysts and marketers who know JavaScript and HTML will earn points with IT teams and better understand the process of collecting key marketing data. Further, being able to do a little troubleshooting yourself will give developers a little bit of a head start—saving them time and making them more likely to help you out sooner rather than later.

Developers and analytics architects may already have a solid understanding in this area. But non-developers should still be able to identify problems and know enough JavaScript to say, “I’m not getting this variable on my page. Here’s where I think the problem is.”

While it is common for digital marketers to lack JavaScript capabilities, they often have to work twice as hard to understand technical details and discussions that inform their company’s objectives and strategies.

To understand and troubleshoot analytics, you have to know the technology you’re working with and the language it speaks.

Tip 3

Document the Implementation

An analytics implementation can be a maze. You have thousands of pages, most likely on multiple digital properties, and each of them is tagged just a little bit differently.

How do you keep track of all those variables? How are they supposed to be set? When was the last time they were updated?

It can be a huge undertaking, but documentation is necessary.

The Tagging Plan: A Horse of Many Colors

Whether you call it a tagging plan, variable map, implementation plan, or a solution design reference (SDR), this plan is a blueprint of your analytics implementations, specifying when and how each tag should be configured on a website in an easily accessible, living document.

Without this guide, variables may be configured to fire incorrectly and data quality can be distorted. Additionally, it might be impossible to know exactly what data is being captured.

Think of the hundreds to thousands of data points and the many ways to examine them, and make sure to do the following when documenting

- ✓ List every variable—such as props, evars, page names, etc.
- ✓ Identify where each variable is collected
- ✓ Include rules and exceptions
- ✓ Be able to be tested against the live site
- ✓ Describe any post collection data manipulation

Below is an example of a tagging plan:

ObservePoint		Active	Scope	Created	Updated	selfLink	parentLink - Typ	parentLink - href	Event	Top 5	Delimiter	Format	Approved Value	Auto Regex	Set Method	TMS Rule
custom dimensions 6463074 : UA-6463074-29 : 90121593																
ga:dimension1	001s_Optimizely_Experiments	TRUE	SESSION	2014-11-21T10:2018-07-09T08:	2014-11-24T16:2018-07-09T08:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						https(http Extension Extensions home/null homepage
ga:dimension2	002h_Pagename	TRUE	HIT	2014-11-24T16:2018-07-09T08:	2015-03-17T14:2018-07-09T08:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						/hx/homepage/null
ga:dimension3	003h_IVW_Virtual_Page	TRUE	HIT	2015-03-17T14:2018-07-09T08:	2015-03-17T14:2018-07-09T08:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						https://v.sport1.de/sport1/
ga:dimension4	004h_Full_URL	TRUE	HIT	2015-03-17T14:2018-07-09T08:	2015-03-17T14:2018-07-09T08:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						
ga:dimension5	old - current date	TRUE	HIT	2015-03-17T14:2018-10-12T06:	2015-03-17T14:2018-10-12T06:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						returningnew
ga:dimension6	old - visitor state	TRUE	HIT	2015-03-17T14:2018-10-12T06:	2015-03-17T14:2018-10-12T06:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						yes
ga:dimension7	old - AdBlock	TRUE	SESSION	2015-03-24T14:2018-10-12T06:	2015-03-24T14:2018-10-12T06:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						
ga:dimension8	008h_Live_Date	TRUE	HIT	2015-04-14T14:2018-10-12T06:	2015-04-14T14:2018-10-12T06:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						
ga:dimension9	009h_Live_Channel	TRUE	HIT	2015-09-18T08:2019-11-11T09:	2015-09-18T08:2019-11-11T09:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						
ga:dimension10	AdBlock	FALSE	HIT	2016-02-25T11:2016-02-25T11:	2016-02-25T11:2016-02-25T11:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						
ga:dimension11	Social Session	TRUE	SESSION	2016-09-26T08:2019-11-11T09:	2016-09-26T08:2019-11-11T09:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						
ga:dimension12	Page Name	FALSE	HIT	2018-07-09T13:2018-07-09T13:	2018-07-09T13:2018-07-09T13:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						
ga:dimension13	013h_Video_Lieferant	TRUE	HIT	2018-11-28T13:2018-11-28T13:	2018-11-28T13:2018-11-28T13:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						
ga:dimension14	014h_Video_Sportart	TRUE	HIT	2018-11-28T13:2018-11-28T13:	2018-11-28T13:2018-11-28T13:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						
ga:dimension15	015h_Video_Liga	TRUE	HIT	2018-11-28T13:2018-11-28T13:	2018-11-28T13:2018-11-28T13:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						
ga:dimension16	016h_Video_Sendung	TRUE	HIT	2018-11-28T13:2018-11-28T13:	2018-11-28T13:2018-11-28T13:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						
ga:dimension17	017h_Video_Category	TRUE	HIT	2018-11-28T13:2018-11-28T13:	2018-11-28T13:2018-11-28T13:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						
ga:dimension18	018h_Video_Keywords	TRUE	HIT	2018-11-28T13:2018-11-28T13:	2018-11-28T13:2018-11-28T13:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						
ga:dimension19	019h_SEO_Page_Type	TRUE	HIT	2018-11-29T14:2018-11-29T14:	2018-11-29T14:2018-11-29T14:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						
ga:dimension20	020h_Page_With_Video	TRUE	HIT	2019-01-23T08:2019-01-23T08:	2019-01-23T08:2019-01-23T08:	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	analytics#webpn	https://www.googleapis.com/analytics/v3/management/accounts/6463074/webproperties/UA-6463074-29	Global	see Auto Regex						no

A documented analytics strategy also helps with validating data—giving rules to measure against your live implementations to verify each variable is passing the correct data, and under the correct circumstances. It should also be updated frequently to reflect your current implementations so any developer, analyst, or marketer can clearly understand how the analytics should work.

Hint:

Your organization's senior analytics architect should own and take accountability for the document, but it should be accessible to anyone who has a stake in the analytics operations or the data being collected.

Tip 4 Spot-Check Your Implementation (As Appropriate)

Analytics solutions don't always work as expected, so there will be times (either on the analysis or the implementation side) when you'll need to verify the analytics solution is tracking properly. At these times, using a tag debugger to spot-check the implementation may be appropriate.

Spot-Checking Tools and Solutions

Also known as “debuggers,” these tools spot-check individual pages to verify that analytics tags exist and are firing correctly. (This is a somewhat limited process, since you have to manually spot-check one page at a time. We'll show you a more efficient way in the next step.) A few solutions for debugging include:

- The Network Panel in Dev Tools
- Google Analytics Debugger (for Google tech)
- Adobe Debugger (for Adobe tech)
- **ObservePoint TagDebugger** (for any and all tech)

There are also proxy solutions that capture all network requests coming from your computer and allow you to look through the data being sent. Two of the most popular are:

- Charles Proxy
- Fiddler Proxy

You can learn more about these solutions and how they can lead to real tag governance [here](#).

Tip 5

Implement Automated Digital Governance

Things are constantly changing on your website or mobile app so it is essential that you test your implementations before, during, and after each and every change, and then test them again..

And again.

And again.

And again.

You don't have time to do that with a debugger as it only helps you scan one page at a time. So how can you implement repeatable tests over time? Via a **digital governance solution**.

What Is a Digital Governance Solution?

A digital governance solution looks at any network requests coming off a page or app in any stage of development and checks for tagging errors based on each tag's structure, determines which tags you have on the page, and whether they are collecting the right data.

The main distinctions between a debugger and a data governance solution are repeatability and scalability. While a tag debugger will allow you, a human, to more easily read requests to determine if tags are firing correctly, it can only help you one page at a time.

With a digital governance solution, you can set up scheduled audits that automatically scan hundreds or thousands of pages on your site to discover all tags deployed on your properties (all authorized or unauthorized tags, regardless of vendor) and to record the data that's being collected by them. By automating this process, a digital governance solution validates that you are continuously collecting complete and accurate data.

In addition, you can set up rules within the digital governance solution that correspond to the requirements in your tagging plan. If at any point the data in a request doesn't match what you expect, you'll receive a notification.

Save Time and Make Better Decisions

Without an automated solution, many companies spend countless hours manually validating each implementation after any changes—and often, that's just to spot-check major pages, not the entire site. With an automated digital governance solution like ObservePoint, teams can significantly reduce the hours spent manually inspecting tags and remain confident that they are capturing accurate data across their properties.

Case Study: Recruit

Recruit, an ObservePoint customer, used to have four full-time employees dedicated to testing their tagging implementation. Now they only need one person spending only part of his time on testing because ObservePoint has automated the process.

Bonus Tip

Validate at Key Development Milestones

Don't wait until your website is out in the wild before checking if it's collecting data correctly.

Setting protocols to test at each milestone—in development, staging, and after a page goes into production—maximizes the chances of catching any analytics errors that can be fixed as they're found, ensuring accurate data collection when the site is live.

The Development, Staging, Production Model

- 1. Development Environment** is the initial experimentation environment where you can build the minimum viable product of a website or app.
- 2. Staging Environment** is where properties are prepared to be seen by the public.
- 3. Production Environment** is the live version of your site or app, and is completely accessible to the public.

Ideally, you should QA your analytics implementations during development, within the staging environment, and after pushing the site live in order to validate that everything stays in place and that the collected data is complete and clean.

Case Study

Using ObservePoint's WebAssurance to QA their analytics before launching a new site, a popular athletic apparel retailer discovered some tags weren't collecting an important segment of visitor data. If they had not been working through stringent QA processes, they might never have noticed this gap and would have collected highly flawed data on their users. By testing their implementations regularly with ObservePoint, they quickly found and corrected the problem before going live, ensuring their visitor data was complete and accurate.

Automate Digital Governance with ObservePoint

You need accurate data in order to anticipate customers' needs and provide exceptional experiences, and this accuracy depends on implementing bulletproof analytics processes.

See how ObservePoint can help bulletproof your analytics implementation..

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