OCT 14 - 16, 2024 LISBON, PORTUGAL







INNOVATION WITH OBSERVEPOINT

Loop Horizon





Matt Bentley

Head of Data Architecture & Analytics



Loop Horizon





Who are Loop Horizon

We enable brands in their transition to a customer data-driven future:

- Ex-client side
- Bridge the divide
- Accelerate value





What to expect

For business leaders with difficult global challenges:

- Use ObservePoint to solve difficult business problems
- Innovate with ObservePoint to maximise value
- Three examples covering:
 - Compliance assurance at scale
 - Data quality and consistency at scale
 - Driving efficiency in development processes





ExCo Compliance Dashboard

Power BI dashboard covering 200+ sites across Europe



I have 200+ websites...

How do I know if I'm compliant?



C-SUITE

I have 200+ websites...



How do I know if I'm compliant?

MARKETING



Dream the impossible dream...

- Data: 200+ websites
- Benchmark: Compliance standards
- ETL: Collate data
- Visualise: Global view
- Drill-down: Granular view
- Activate: Actionable insight





Consent Categories @

Q Search By Name 🛛 垚 Filters 🗸

CATEGORY NAME	түре	NOTES	LABELS	COOKIES	TAGS	DOMAINS & GEOS	AUDITS
Required Cookies	Approved	8 ~	🕂 add label	33	9		Ø 723 V
STANDARDS	Approved	B ~	+ add label	151	66		🧭 692 🗸
Alerts Tag & Variable Rules	Approved	Ê ~	🕂 add label	164	11		🧭 692 🗸

Consent Categories

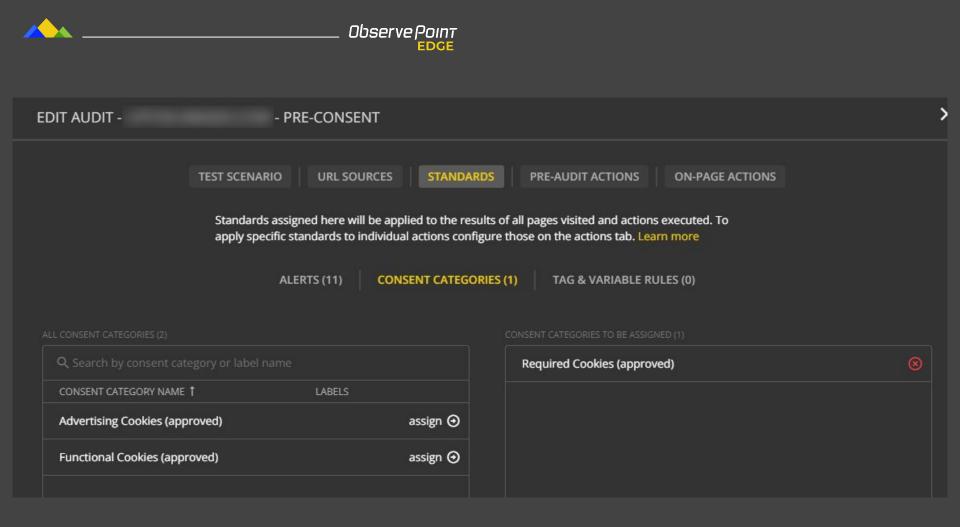
1 – 3 of 3



	Observe Point EDGE						
- NAME OF APPROVED CONSENT CATEGORY*	TYPE* E						
Add this as a default consent category to all audits I create (note: all default CCs must be of the same type).							
This Consent Category will approve these cookies, tags and request domains & geolocations, and unapprove any others found.							
Cookies (151) Tags (66) Request Domains & Geolocations (0)							
Q Search by tag name or tag account							
TAG NAME	TAG ACCOUNTS						
AddThis	Enter account (or leave empty for any account)						
AddThis Widget	Enter account (or leave empty for any account)						
Adform	Enter account (or leave empty for any account)						
Adform Script	Enter account (or leave empty for any account)						
Adobe Advertising	Enter account (or leave empty for any account)						
Adobe Advertising: Sync Pixel	Enter account (or leave empty for any account)						
Adobe Advertising: View-Through Tracking	Enter account (or leave empty for any account)						

O Adobe Audience Manager

Enter account (or leave empty for any account)











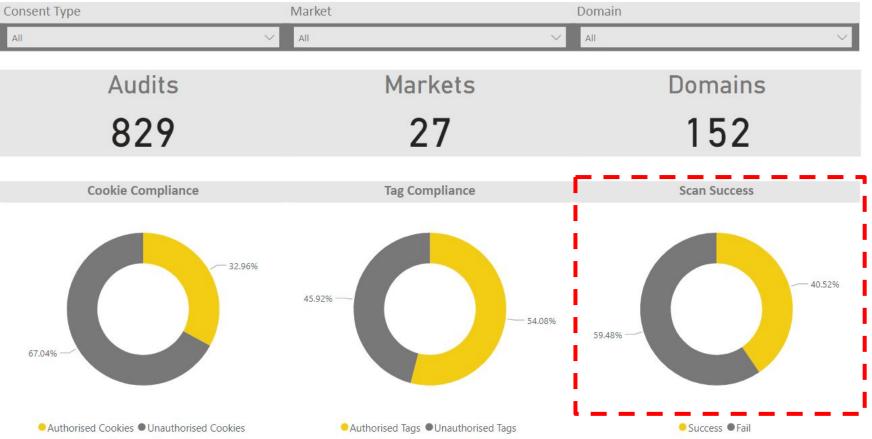






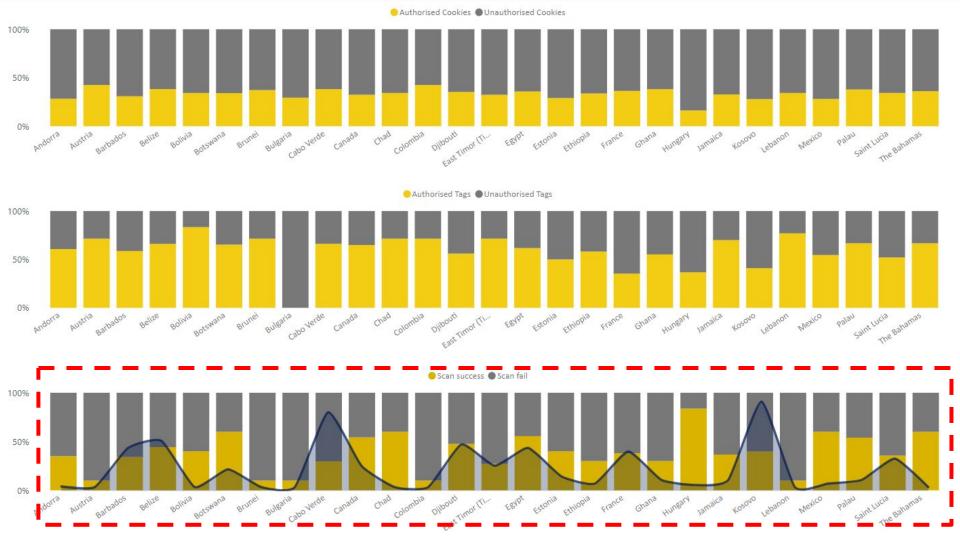










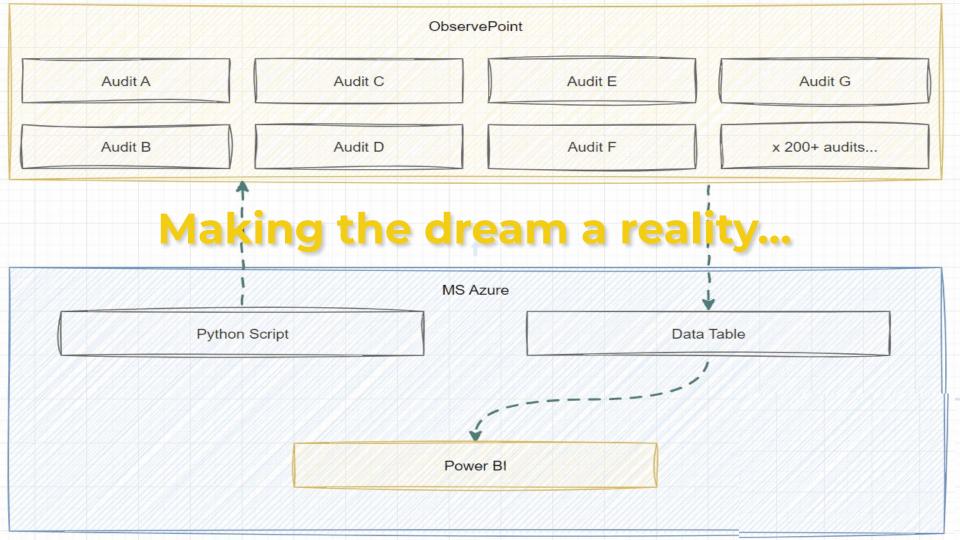


L _ 註 Filters 🗸 🛛 Tag Load 500-999 ms 🔕

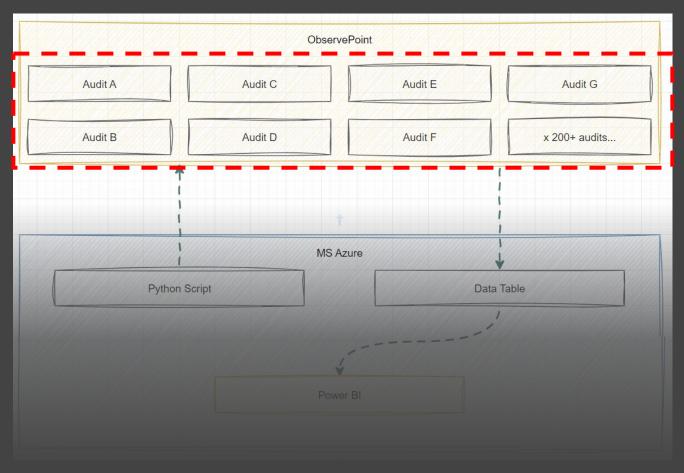
3 APPLIED CONSENT CATEGORIES V

ages Scanned	Pages with Unapproved Tags	Tags Evaluated 4	Approved Tags 3	Unapproved 1						
10	10	No Change since last run	No Change since last run	N						
Tag Compliance 📣										
	STATUS 🕁	CONSENT CATE	GORY # (DF PAGES						
		d ⊕		0						
	S Approved	Required Coc	okies 1	0						
	September 2018	Required Coc	kies	0						
-	S Approved	Required Coc	okies 1	0						

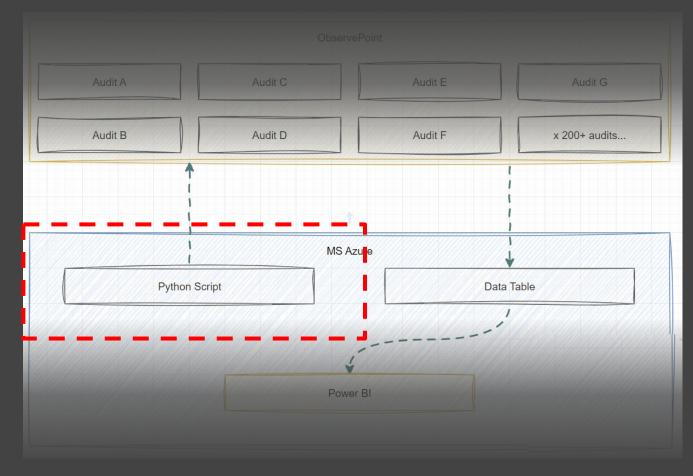
 $\langle \rangle$



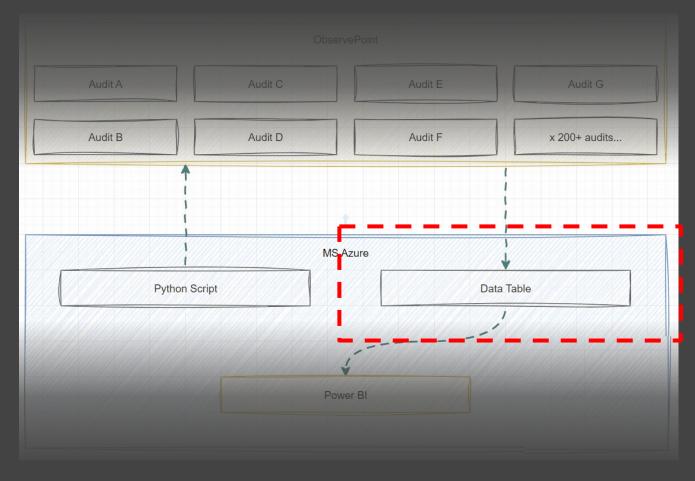




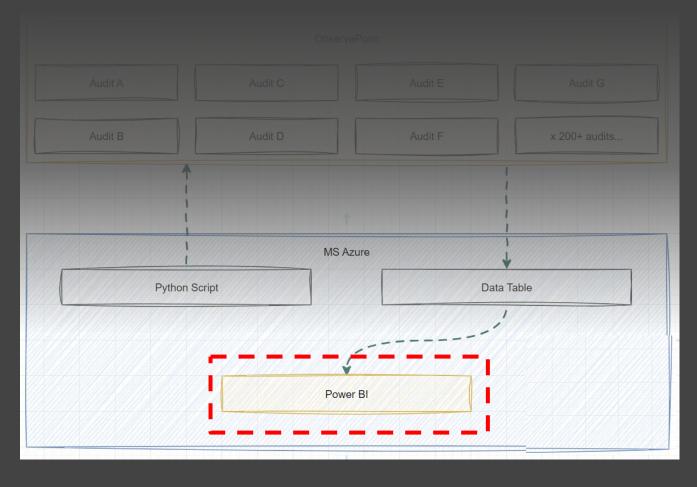














• C-Suite has a global view of compliance

• Legal has a compliance roadmap

• Marketing has confidence to use their data





Data Quality & Consistency

Deploying tools across 1000+ sites globally



I have 1000 websites

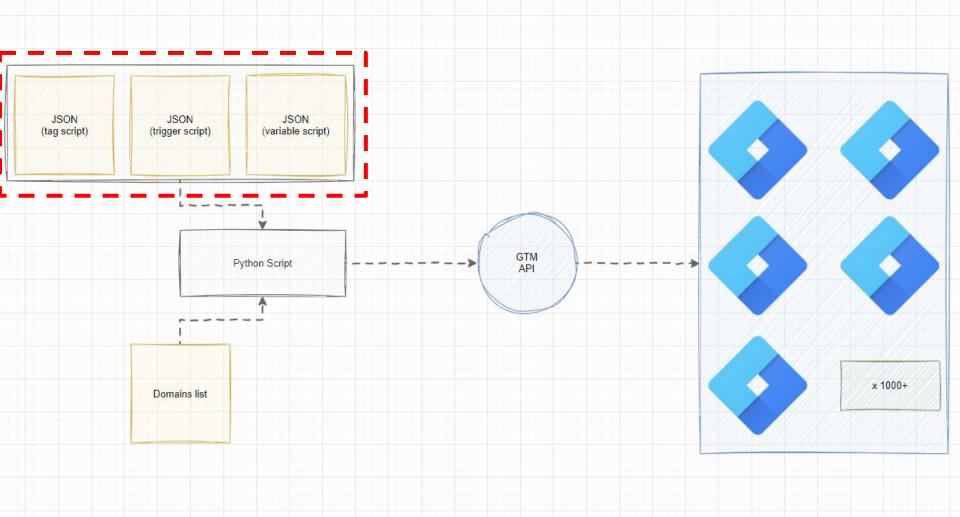
Am I confident my tools are deployed correctly?

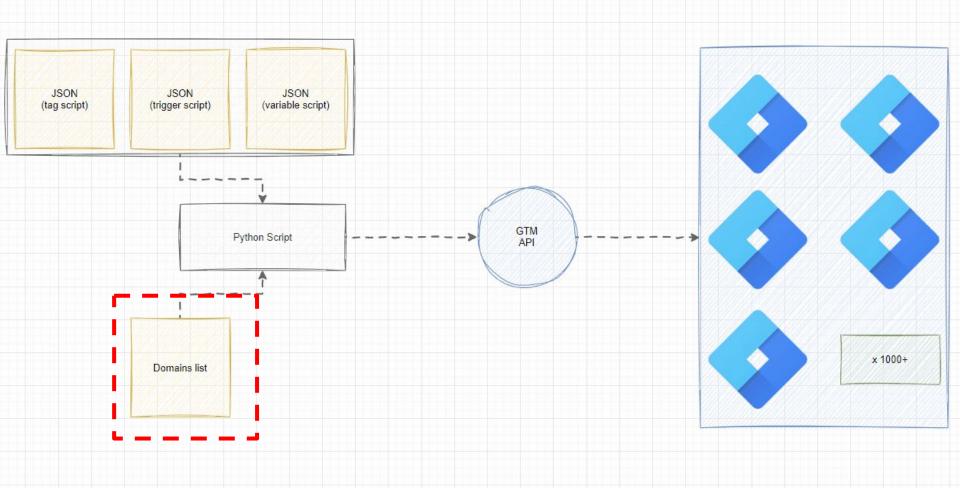


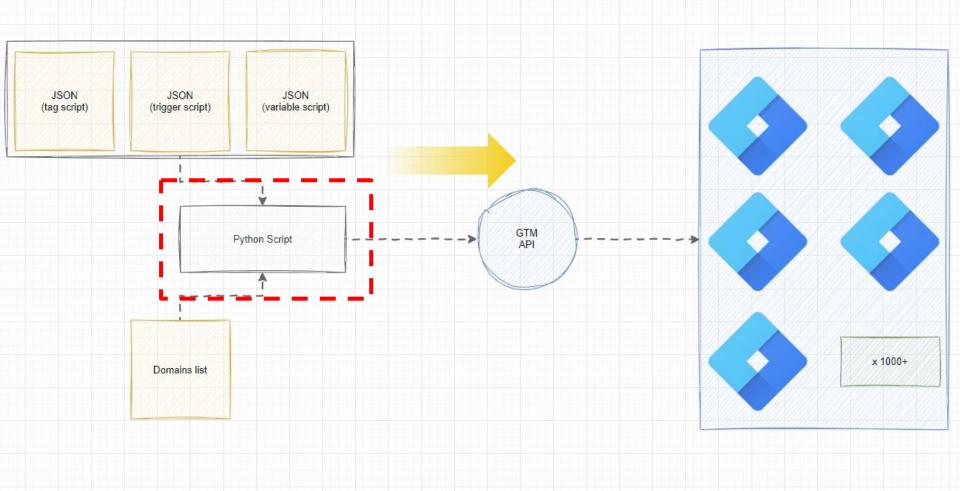
Validate deployment at scale...

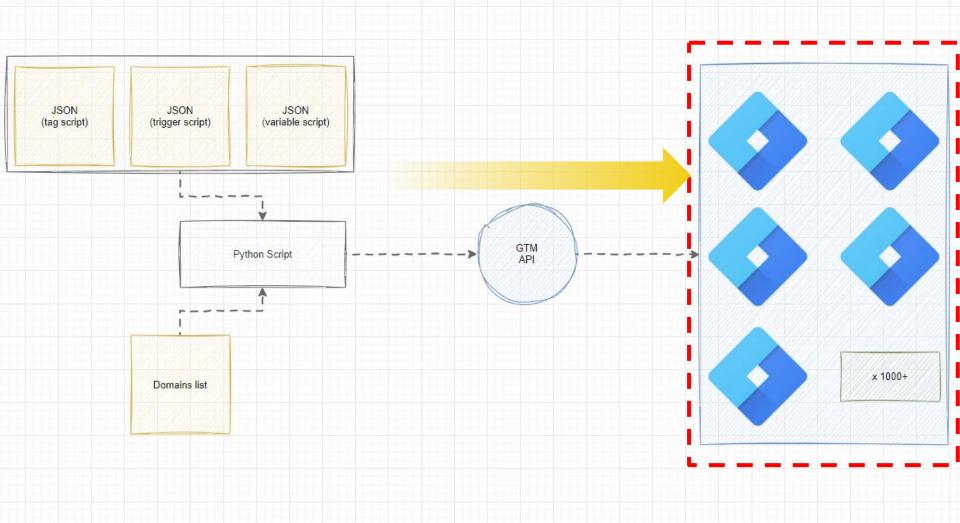
- Data: 1000+ websites 1000+ GTMs
- Roll out: One config many deployments
- Validate: Nothing breaks!
- Benchmark: Consistently deployed
- Activate: Publish to live













File substitution

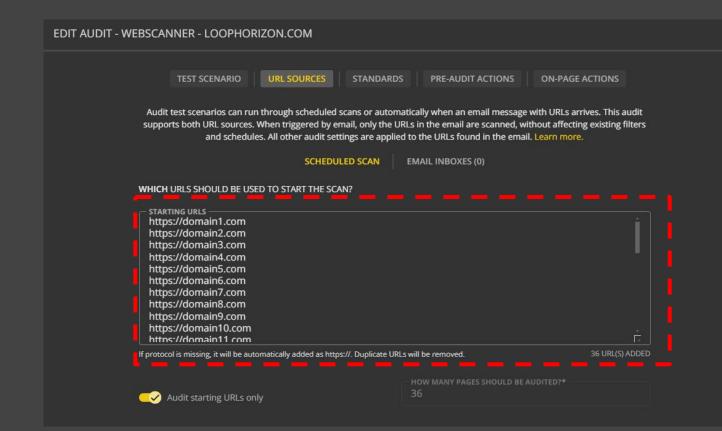
ObservePoint allows audits to replace scripts before every page load:

- Configure the audit for all updated domains
- Disable production GTM script
- Run development GTM script
- Set rules to validate that GTM loads:
 - The standard tool version on all domains
 - The tool sends data aligned to standards





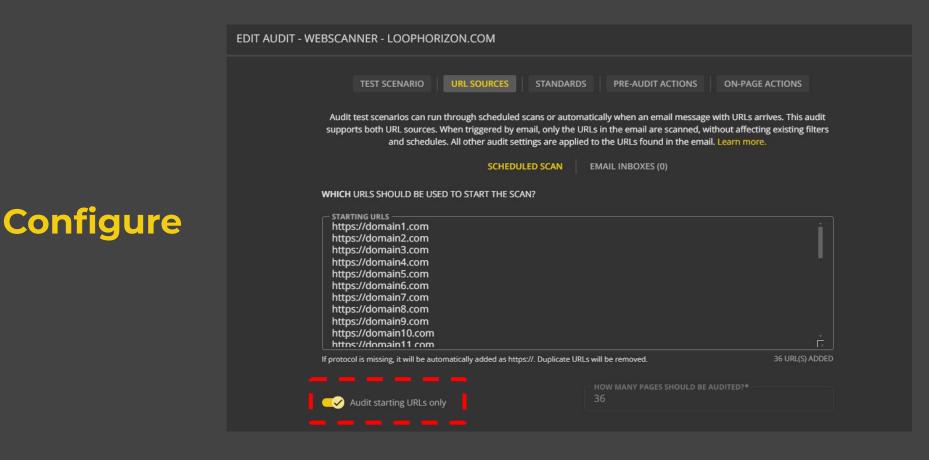




Configure







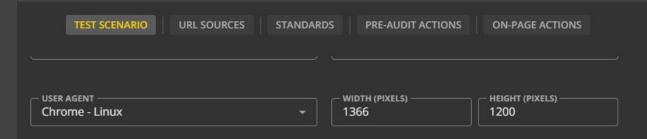


Name* GTM d	ev script					
^.*g	oogletagmanager\	.comVgtm\.is\?i	d=GTM-(IA-Za-z()-91+)\$ ()		Reg
			L			
۵	Upload substitute file set an empty obje	ct to disable gtn	n.js			
or, E	NTER URL				2MB r	naximi

Disable GTM



Disable GTM



ARE THERE SPECIFIC TAGS OR TAG CATEGORIES THAT SHOULD BE BLOCKED? —

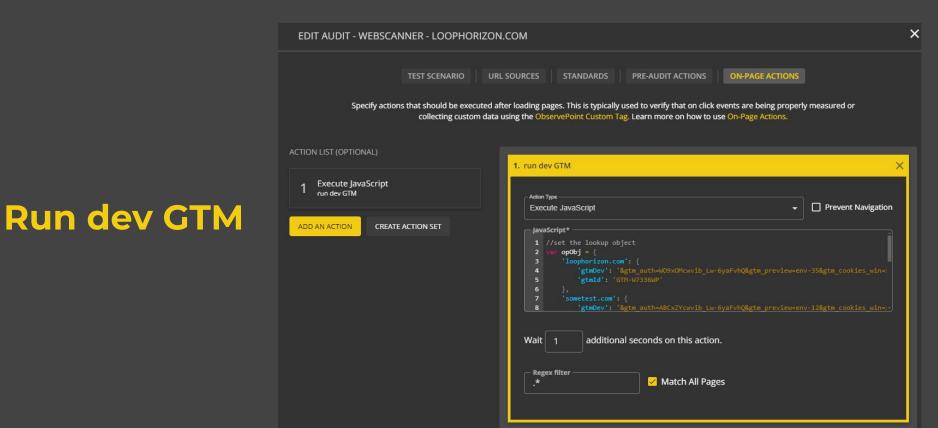
elect one or many technologies from ObservePoint's Tag Library to be blocked.

•

FILE SUBSTITUTIONS (REMOTE FILE MAPPING) GTM dev script GTM dev script GTM dev script Send GPC Signal (On all pages visited, the ObservePoint browser will send GPC signal of true.) Learn more. CMP Accept All / Reject All Consent management "Accept All" or "Reject All" is configured on the Pre-Audit Actions tab. Add the action now →







1. RUN DEV GTM



1. RUN DEV GTM

- lava	aScript*						
100							
	//set the lookup object						
2							
3	'loophorizon.com': {						
4	'gtmDev': '>m_auth=1 Q>m_preview=env-35>m_cookies_win=x',						
5	'gtmId': 'GTM						
6							
7	'sometest.com': {						
8	'gtmDev': '>m_auth= IQ>m_preview=env-12>m_cookies_win=x',						
9	'gtmId': 'GTM-						
10							
11	340						
12							
1000	//get the relevant GTM dev script						
14	<pre>var gtmData = opObj[location.href.replace('https://www.','').replace('https://','').replace('http://www.','').replace('http://'').replace('http://'')</pre>						
15	Beener						
	//replace with GTM dev script						
	<pre>(function(w,d,s,l,i){w[1]=w[1] [];w[1].push({'gtm.start':</pre>						
	<pre>new Date().getTime(),event:'gtm.js'});var f=d.getElementsByTagName(s)[0],</pre>						
25112	j=d.createElement(s),dl=l!='dataLayer'?'&l='+l:'';j.async=true;j.src=						
	'https://www.googletagmanager.com/gtm.js?io='fitdlr gtm_ata.gtmDev;f.parentNode.insertBefore(j,f);						
21	<pre>})(window,document,'script','dataLay(r',gtmData.gtmId);</pre>						



EVALUATION SETTING

How many times should this rule be evaluated per audit page or journey action?



Criteria that needs to be present for this rule to be evaluated. For example, use a regular expression to restrict this rule to product pages or only apply this rule if a specific page status code is present. For criteria that is not matched it will show up in the not applied section for reporting.

ADD CONDITION

Set rules

EXPECTATIONS

Data that is expected to be present in the specified tag(s) and variable(s

THEN

Google Analyti	ics 4 👻			
Account	Operator equals	✓ Value G-ABC123XYZ0	Validation descripti Correct GA4 tag fires	⊗
Add Variable				

		Rule Details By Page			
	RULE NAME	EMAIL NOTIFICATIONS	PAGES WITH FAILED RULES	PAGES WITH PASSED RULES	PAGES WITH RULES NOT APPLIED
>		A	370	629	1
>		A	10	990	0
>		▲		992	0
>		A	8	992	o
>		▲	8	992	0
>		▲	8	992	0
>		0		995	0
>		9		995	0

INSTANCES	TAG	TYPE	MESSAGE 😣 14 🛕 1	🐞 0 🚺 3 🗖 0 🕯
1		8	OP script replacement works! Oct 8, 2024 01:31:57 PM	



. Gobal tool roll out

Consistent delivery

• Confidence to go-live at scale





Development Process Efficiency

Data quality validation in the development process



I have a data layer

How do I ensure it is developed consistently across all my web properties?



Automated data layer validation...

- Data layer: Complex data layer for retailer
- Schema: Allows real-time data validation
- Validate: Run the site against the schema
- Automate: Trigger every new publish
- Alert: Send alerts if anything breaks



> dataLayer

⟨· ▼ (7) [{...}, {...}, {...}, {...}, {...}, {...}, {...}] ¥ 0: v contentView: ▶ component: (75) [{..}, {..} displayMethod: "homepage" > locator: {path: '', url: ' ▶ menuIdStructure: [] ▶ menuStructure: (2) [pagination: 0 roughSizeOfObject(dataLayer) rank: "" ▶ redirect: [] referrer: "" 157KB ▶ refinement: [] results: 0 searchTerm: "" storeId: "" template: "home/homePage" > tradeIn: [] ▶ variant: [] > viewport: {mode: 'desktop hat's reconciveBeeakpoint unky data layer... event: "view" v timestamp: isoTimestamp: "2024-10-08T14:55:06.745Z" timestampMs: 1728399306745 [[Prototype]]: Object v user: ▶ consent: (2) [{...}, {...}] device: {advertisingId: {...}, userAgent: 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWeb...KHTML, like Gecko) Chrome/129.0.0.0 Safari/537.36'} in: " loginType: "logged_out" obfuscatedEmail: "" obfuscatedId: "" > personalisation: [] > productHolding: [] salesforceAccountId: ""

```
V EXAMPLE DATA LAYER
                       full schema combined > {} full_schema_combined.json > {} definitions > {} Items
                                "definitions": {
 ✓ example push
                                  "ProductEvents": {
  JS add_payment_info.js
                                    "properties": {
  JS add_shipping_info.js
                                      "items": {
  JS add to cart.js
  JS begin_checkout.js
                                    "required": [
  JS purchase.js
                                      "event",
  JS remove_from_cart.js
                                      "items"
 JS view_cart.js
                                    ,
  JS view_item_list.js
                                    "type": "object"
  JS view_item.js
 v full schema combined
                                  "PurchaseEvent": {
 {} full schema combin...
                                    "additionalProperties": false,
                                    "description": "Indicates that a purchase level event has occurred",
 {} items.json
                                    "properties": {
                                                                                                                        But a JSON
 {} product_events.json
                                      "event": {
 {} purchase event.json
                                        "sref": "#/definitions/PurchaseEventType",

 readme.txt

                                        "default": "purchase",
                                                                                                                        schema can be
                                        "description": "Restricts this event to the list of purchase level events"
                                      "items": {
                                                                                                                        activated...
                                        "default": [],
                                        "description": "The list of products",
                                        "items": {
                                          ""$ref": "#/definitions/Items"
                                        "type": "array"
                                      "transaction id": {
                                        "default": "",
                                        "description": "The unique identifier of a transaction. The transaction id parameter helps you avoid getting duplicate events for a purchase",
                                        "type": "string"
                                    "required": [
                                      "event",
                                      "items",
                                      "transaction_id"
                                    ],
```

EVEL CONCERC

all_schema_combured.json

```
DATA LAYER ERROR: Errors with data layer event product
[{...}] i
v0:
    instancePath: "/product
    keyword: "enum"
    message: "must be equal to one of the allowed values"
  v params:
    v allowedValues: Array(27)
        0:
        1:
        6:
        7:
        8:
        10:
        11:
        12:
        13:
        14:
        15:
        16:
        17:
        18:
        19:
        20:
        21:
```

... to provide real-time feedback to developers...



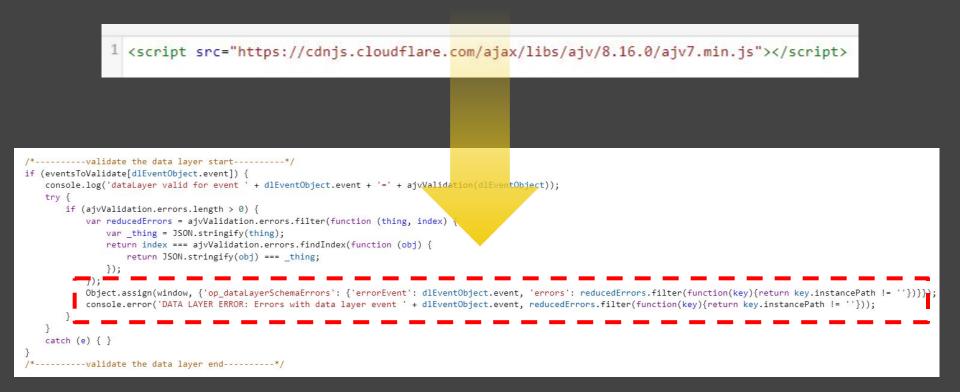
Validate the whole site...

ObservePoint gives the ability to validate the whole site every time there is a release:

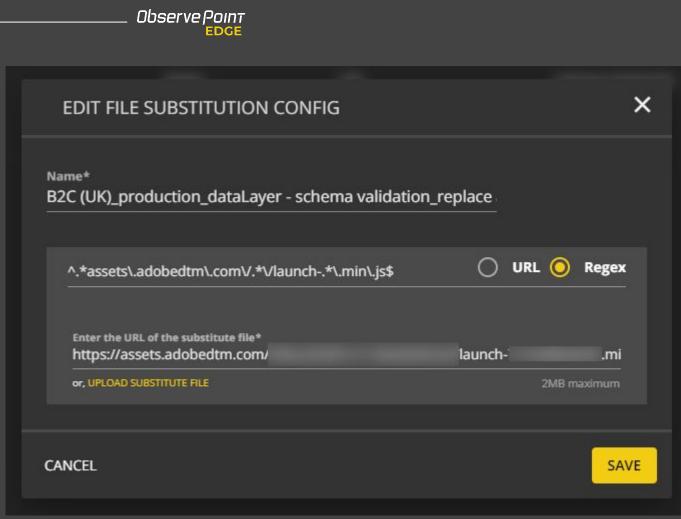
- Swap the tag manager to one with schema validation
- Configure sub-folders
- Set rules to validate the data layer
- Run a web-hook on site release / cadence to run audit



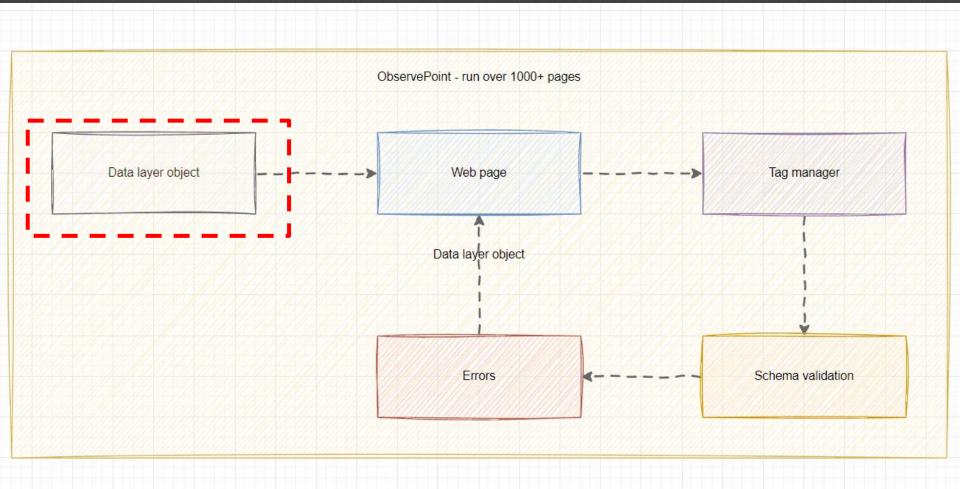
1 <script src="https://cdnjs.cloudflare.com/ajax/libs/ajv/8.16.0/ajv7.min.js"></script></script></script>

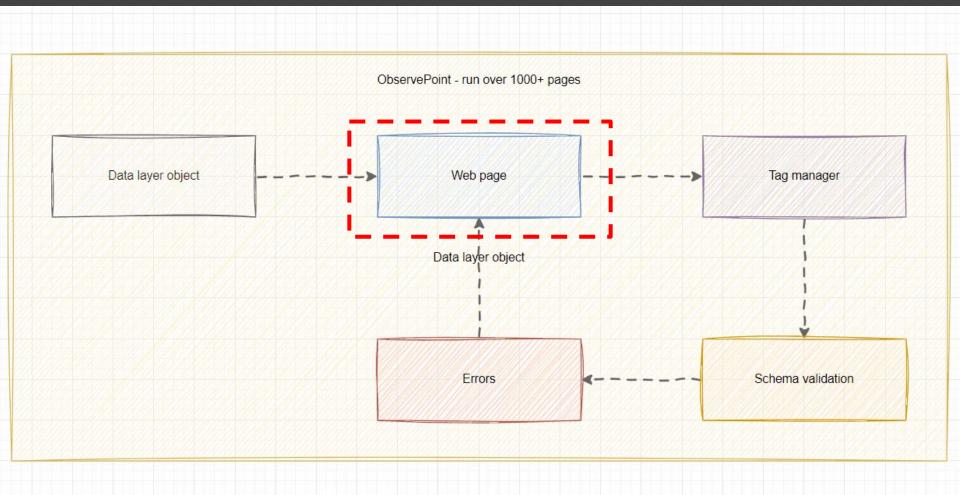


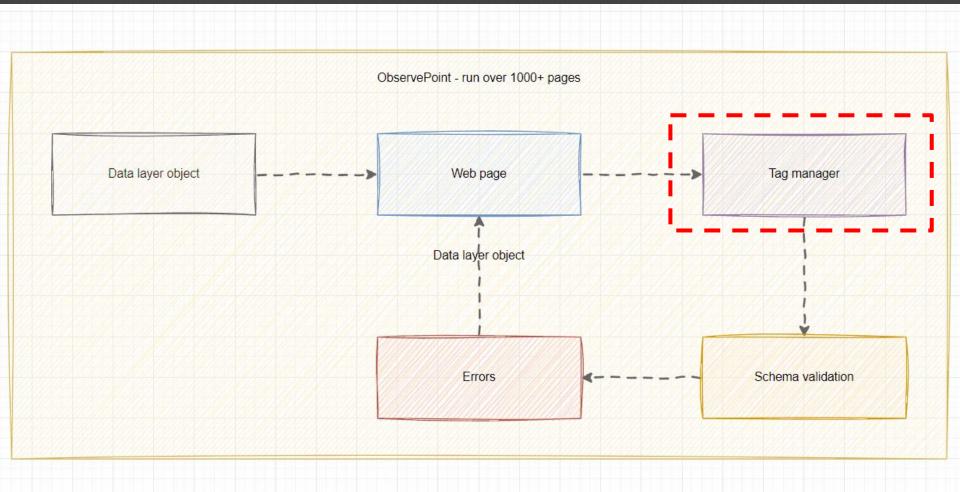


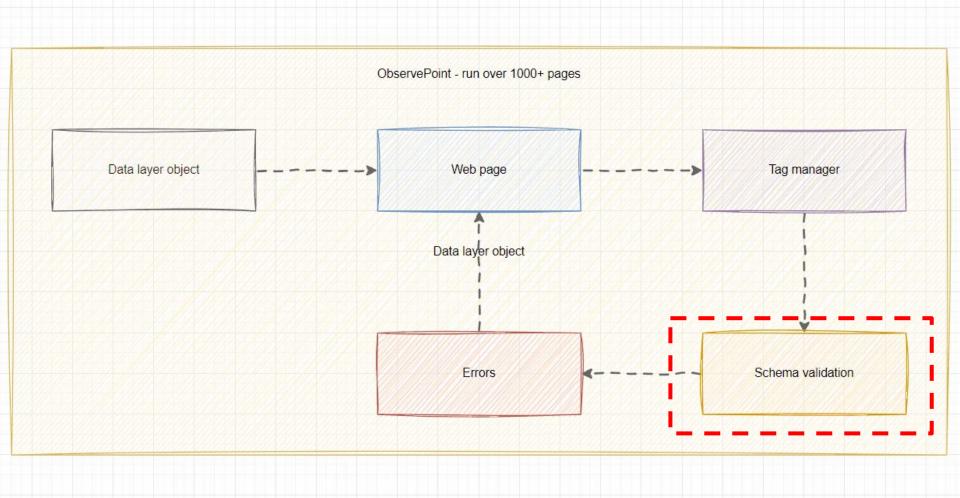


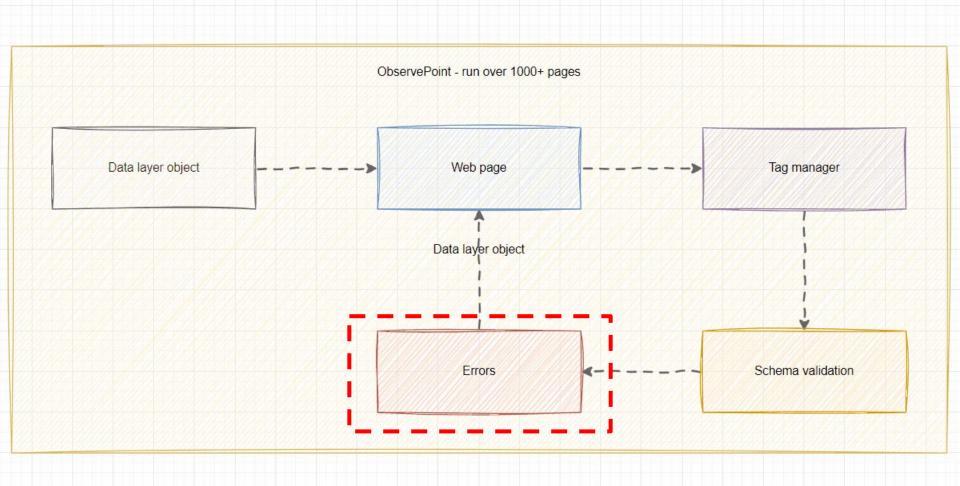
Swap

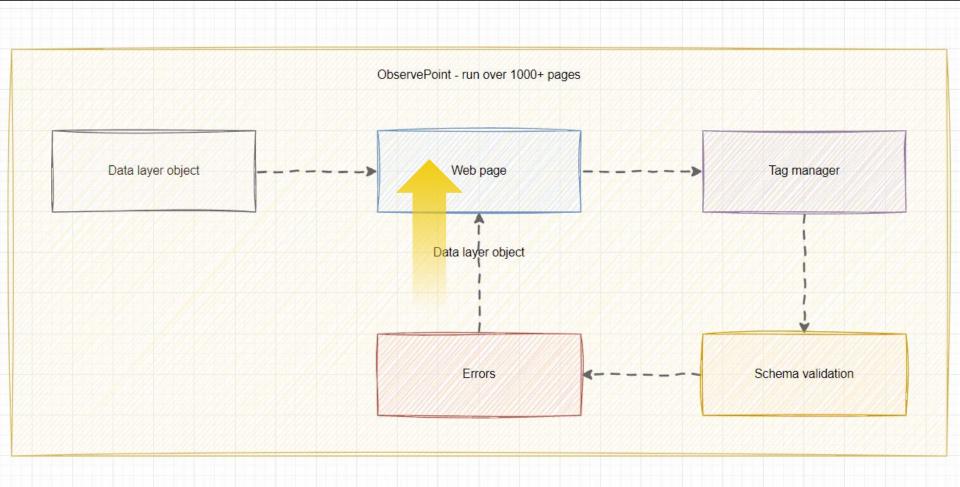












AUDIT OVERVIEW

- Jse-Cases
- Summar
- Alerts
- Pages (Web Vitals) NEW

O Search By LIDI

Magn

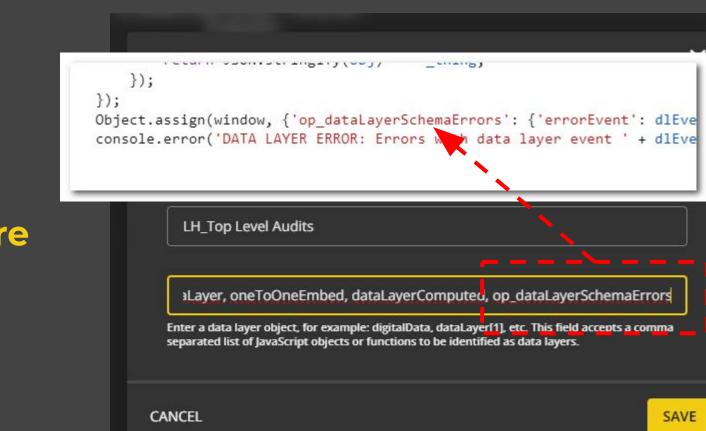
- TECHNOLOGY
- Tag Inventory
- Tag Health
- /ariable Inventory
- Tag & Variable Rules
- Tag & Variable Comparisons
- Duplicates & Multiple
- Cookie Inventory
- Browser Console Logs
- RIVACY
- Cookies
- Tags
- Request Domains & Geos
- avaScript File Changes
- Audit Exports
- NOTES 🗸

Qs	earch By URL	ers 🗸 M	essage text 💽 con	tains DATA	LAYER ERROR'					
Y	Pages Scanned	Ţ	8 Errors 879 🏨	× -	▲ Warnings 0	T	Info O	T	Debug O	Y
T	879 of 1,000		↑ 578 since last run		↓ 1,196 since last run		↓ 80 since last run		↓ 10 since last run	
					Browser Lo	og Messages ႃ				
	CONSOLE MESSAGE									TYPE 🕹
~	DATA LAYER ERROR: Er	rors with d	lata layer event	t product	[{"instancePath":					error
		roro with d	lata lavar over	product	[("instanceDath" -					homoDoth"
	DATA LAYER ERROR: Er	rors with d	ata layer event	product	[{ instancePath":					iemaPath"
>	DATA LAYER ERROR: Er	rors with d	lata layer event	t product	[{"instancePath":					error
>	DATA LAYER ERROR: Er	rors with d	ata layer event	t product	[{"instancePath":					error
>	DATA LAYER ERROR: Er	rors with d	lata layer event	t product	[{"instancePath":					error
>	DATA LAYER ERROR: Er	rors with d	lata layer event	t product	[{"instancePath":					error
>	DATA LAYER ERROR: Er	rors with d	ata layer event	t product	[{"instancePath":					error
>	DATA LAYER ERROR: Er	rors with d	ata layer event	t product	[{"instancePath":					error
					1 (Hereathan a birth Hal					TABLE 7

test

- > DATA LAYER ERROR: Errors with data layer event product [{"instancePath": error
- > DATA LAYER ERROR: Errors with data layer event product [{"instancePath": error





Observe Point

EDGE

Configure

UDIT OVERVIEW

Jse-Cases

Pages (Web Vitals) (NEW)

ECHNOLOGY

ag Inventory

ag & Variable Rules

ag & Variable Comparisons

Browser Console Logs

RIVACY

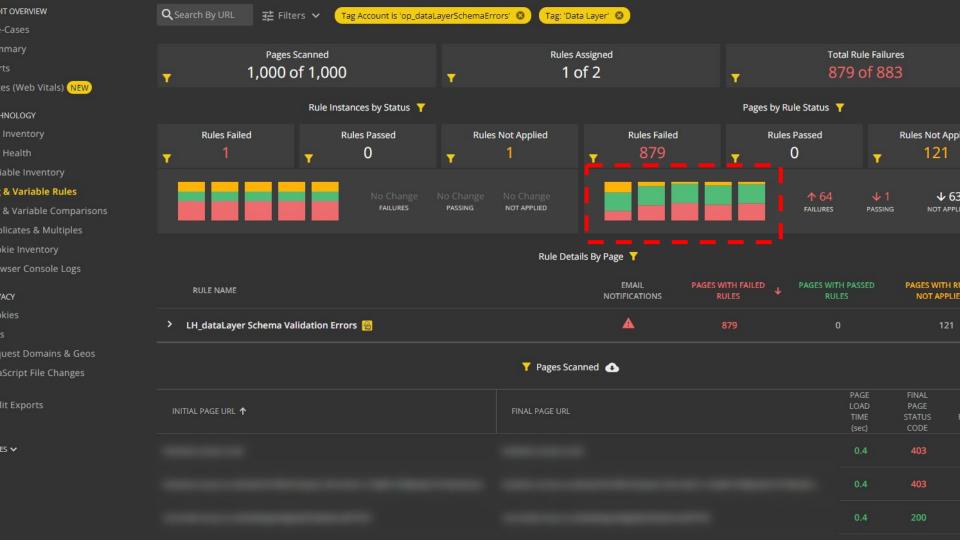
avaScript File Changes

Q Search By URL		SCANNED ON Sep 25, 2024 5:25 PM
	1 URL 200	
🗸 🙆 Data Layer	PAGE INFORMATION TAGS COOKIES ACCESSIBILITY NEW	REQUEST LOG CONSOLE LOG TAG INITIATORS RULES
op_dataLayerSc		
	Q Data Layer X	< 🗖
	> 😫 Account ID: dataLayer	Data Management 200
INITIAL PAGE URL 🕇	> 🛛 Data Layer Account ID: dataLayerComputed	Data Management 200
	✓ Bata Layer Account ID: op_dataLayerSchemaErrors	Data Management 200
	OBSERVEPOINT DATA	UNIQUE REQUEST
	VARIABLE DATA	
	errorEvent	product
	errors.0.instancePath	/productDetail/
	errors.0.keyword	enum
	errors.0.message	must be equal to one of the allowed values
	errors.0.params.allowedValues.0	
	errors.0.params.allowedValues.1	
	errors.0.params.allowedValues.2	
	errors.0.params.allowedValues.3	





× EDIT RULE - LH_DATALAYER SCHEMA VALIDATION ERRORS - Filter By* Value* **Operator*** -⊗ equals Data Layer - Operator* Validation description Value* op_dataLayerSchemaErrors Schema validation errors returned as an object to the page ⊗ equals Account Add Variable OR 🕂 Add Status Code ⊕ ADD ANOTHER PRECONDITION **Set rules** EXPECTATIONS THEN - Select Tag* Data Layer Operator* Value* Validation description equals BREAK Ensure the rule fails when schema errors are found ⊗ Account (+) Add Variable ADD ADDITIONAL TAG & VARIABLE(S) CANCEL SAVE RULE

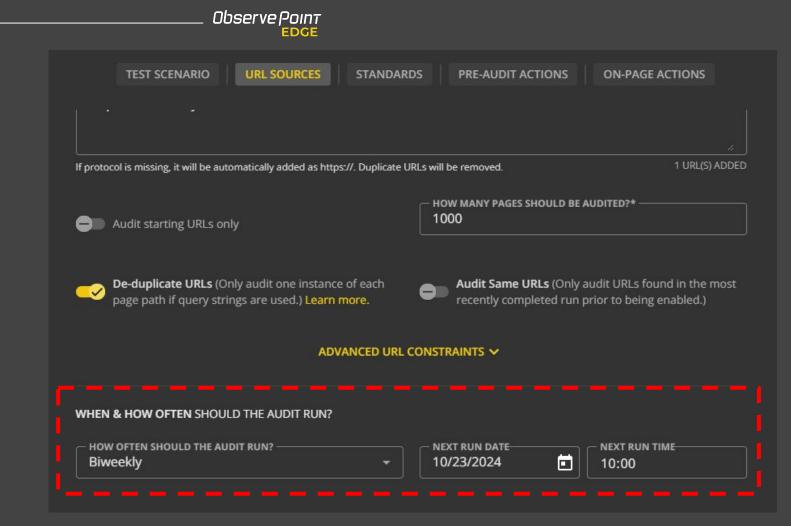




POST	POST run an audit +					
	/ run an audit					
POST	https://app.observepoint.com/api/v2/web-audits/1341412/runs					
Params	Authorization Headers (28) Body • Scripts Tests Settings					
~	priority	u=1, i				
~	referer	https://app.observepoint.com/data-sources				
~	sec-ch-ua	"Google Chrome";v="129", "Not=A?Brand";v="8", "Chromium";v="129"				
~	sec-ch-ua-mobile	20				
~	sec-ch-ua-platform	"Windows"				
~	sec-fetch-dest	empty				
~	sec-fetch-mode	cors				
~	sec-fetch-site	same-origin				
~	sentry-trace					
~	user-agent	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like				
		Value Descript				

Run





Run



• Automated data layer validation at scale

Proactive issue identification & resolution

• Improved development efficiency & data quality





Managed services

Loop Horizon offers a range of managed services through ObservePoint:

Starter pack:

Identify use cases and deploy ObservePoint to solve them.

Full service:

Go beyond the starter pack with additional support in interpreting results and raising fixes.

Ongoing implementation:

Loop Horizon will maintain your ObservePoint implementation and raise / resolve issues found







Matt Bentley

Head of Data Architecture & Analytics



Loop Horizon

