

DAP UA/GA4 Code v7.0 Release Notes

Prepared for:



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Introduction

These Release Notes cover changes to the GSA Digital Analytics Program (DAP) Federated JavaScript code file (i.e. Universal-Federated-Analytics.js) in this 7.0 release.

Features Summary

Features Now Incorporated into the DAP GA Code

1. **Update:** The createTracker function was updated to support reporting custom URLs and Titles, and PII redaction.
2. **Update:** YouTube Tracker was updated to include the progress events, which previously progress reported with pause events, and fixed an issue reported in some edge cases where getDuration was causing an error in certain environments
3. **Update:** _mapGA4toUA function was updated to include changes required for the YouTube tracker update.
4. **Update:** _updateConfig function was updated to enable reporting custom URLs and titles, and control the YouTube Tracker progress milestones.
5. **Update:** Add additional query string parameters to the whitelist of the DOC agency list.
6. **New:** Add _customTask function to redact PII as explained in the DAP Code Capabilities Summary and Reference.
7. **New:** Add _piiRedact function to redact PII as explained in the DAP Code Capabilities Summary and Reference.
8. **New:** Add _customTask function to redact PII as explained in the DAP Code Capabilities Summary and Reference.
9. **New:** Add _payloadInterceptor function to redact PII as explained in the DAP Code Capabilities Summary and Reference.

Features Newly Implemented

1. **Custom Page Title and URL:** Enable agencies to report a custom page title and URL by setting the query string parameter (**custitle**, and **custurl**) to true, and set the custom_dap_data variable to the new desired custom page title and URL as illustrated in the code capability summary and reference.
2. **Video Progress Events:** The YouTube tracker was updated to include new progress events that trigger based on pre-set milestones rather than reporting progress with video pause events.
3. **Customize YouTube milestones:** This YouTube tracker update allows agencies to customize the milestones when progress events are triggered. This adds flexibility so agencies can customize the tracker based on their reporting needs. Agencies can choose a value of 10, 20, or 25, representing the percentage frequency at which the event is reported.
4. **PII Redaction:** As of version 6.8, the DAP code included functionality to allow only whitelisted query-string parameters to be reported to Google Analytics and trim anything else from the page URL. Starting in version 7.0, this functionality was expanded to include all data points collected by Google Analytics, not just the page URL. This means if any other data point is using a parameter that is not whitelisted, it will be removed.

Additionally, a new functionality was added to check the hit payload against a list of potential PII parameters including email, name, telephone number, date of birth, address, and social security number.

Except for email addresses, which will be recognized without a key to identify it, all other PII data points are checked based on a key: value presence. If any of the aforementioned potential PII was presented without its key, it will not be redacted. Full details of how this works can be found in the DAP Code Capabilities Summary and Reference

5. **Querystring Parameter Allowed _setAllowedQS function:** This was updated to include additional parameters. This functionality allows tracking of particular query-string parameters, by cross-referencing them with both the "**default**" set (containing Google's predefined and search terms query strings) and **specific agency Query String** such as "gsa", "dhs", "doc", "hhs", "hud", "nasa", "nsf", "va", "**dod**", "**opm**"

If there is a new requirement to include additional custom query-string parameters, it is necessary to reach out to the GSA DAP team. Alternatively, agencies have the option to transmit these parameters using the query string **SP** key.

Agency	Query String Parameter
default	utm_id,utm_source,utm_medium,utm_campaign,utm_term,utm_content,_gl,gclid,dclid,gclsrc, affiliate, dap-dev-env, v, q, query,nasalInclude,k,querytext, keys, qt,search_input, search,globalSearch, goog,s,gsearch,search_keywords, SearchableText,sp_q, qs,psnetsearch,v locate, lookup,search_api_views_fulltext,k eywords,r equest,_3_keywords, searchString
gsa	challenge, state
dhs	appreceiptnum
doc	station,meas, start,atlc,epac,cpac, basin,fdays, cone,tswind120,gm_track,50wind120,hwind120,mltoa34, swath, radii,wsurge,key_messages, inundation,rainqpf,ero, gage,wfo,spanish_key_messages,key_messages, sid,lan, office, pil
hhs	s_cid,selectedFacets
hud	PostID
nasa	feature, ProductID,selectedFacets
nps	gid,mapid, site, webcam, id
nsf	meas, start,atlc,epac,cpac, basin,fdays, cone,tswind120,gm_track,50wind120,hwind120,mltoa34, swath, radii,wsurge,key_messages, inundation,rainqpf,ero, gage,wfo,spanish_key_messages, key_messages, sid
va	id
dod	p
opm	l, soc, jt, j, rmi, smin, hp, g, d, a

Known Limitations

1. The Federated DAP code is designed to work on all government sites, whether they already have inline, site-specific/independent GA tracking or not. Specific supported scenarios include:
 - UA/GA4 Site Specific before the Federated code (Default Tracking Object)
 - UA/GA4 Site Specific after the Federated code (Default Tracking Object)
 - UA/GA4 Site Specific before the Federated code (Custom Tracking Object)
 - GA4 Site Specific after the Federated code (Custom Tracking Object)
 - Classic GA Site Specific before the Federated code
 - Classic GA Site Specific after the Federated code

There is one known limitation with a scenario where the Gov-wide Federated Analytics code fails: when an agency's Universal Analytics tracking code (not DAP) uses a custom/non-default tracking object and it is added right after the Federated code. In this specific scenario, the Federated code will fail in reporting the first page hit and will be able to track normally all the consecutive hits. Example:

2. **Browser Limitation:** The Federated code doesn't fully support older versions of Microsoft Internet Explorer. While the Federated DAP code works with all known browsers, some features (e.g. the YouTube tracker) may not work properly on Internet Explorer 8 and earlier versions due to limitations in the YouTube API.