# DAP UA Code v4.1
# Release Notes

Prepared for:

# 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 4.1 release.

# Features Summary

## Features Now Incorporated into the DAP UA Code

1. XHR Transport Mechanism

## Features Enhanced

1. **Style Cleanup**: Inspired by [Pull Request #67](#) on the Gov Wide Code GitHub repository, some styling changes have been updated to improve consistency.

2. **Alternate Tag Snippet**: In order to address [Issue #72](#) in the Gov Wide Code GitHub repository, we realized that an alternate method for adding the Gov Wide Code was needed. This alternate method enables easier dynamic use of parameters (for example, when you only want to enable the YouTube tracking parameter on certain pages). We've updated our code and documentation to support this case. See "Dynamically Inject DAP Library" on page 10 of the Quick Guide for details.

## Features Newly Implemented

1. **XHR Transport Mechanism**: By default, Google Analytics uses an image based transport mechanism for sending hits to Google's servers. We updated the DAP code in this release to default to the XHR transport mechanism instead. This update enables DAP users to apply CSP policies geared towards protecting against content injection attacks targeting <img> tags, without having to make special allowances for Google Analytics hostnames. If users would like to change the transport mechanism of DAP to image or beacon, they can do so using a new

supported parameter. Special thanks to the Login.gov team and Eric Mill for raising this request and providing additional context.

# Known Issues

**Issue #1**: The Federated code is designed to work on all government sites whether they already have inline site specific GA trackers or not. There is only one scenario that is not fully supported by the Federated code, which is when a Universal Analytics tracking code (that is using a custom/non-default tracking object) 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.

Supported Scenarios:

- UA Site Specific before the Federated code (Default Tracking Object)
- UA Site Specific after the Federated code (Default Tracking Object)
- UA Site Specific before the Federated code (Custom Tracking Object)
- Classic GA Site Specific before the Federated code
- Classic GA Site Specific after the Federated code

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