



# GMaps Plugin<sup>®</sup>

WHITE PAPER  
GMaps Plugin Security

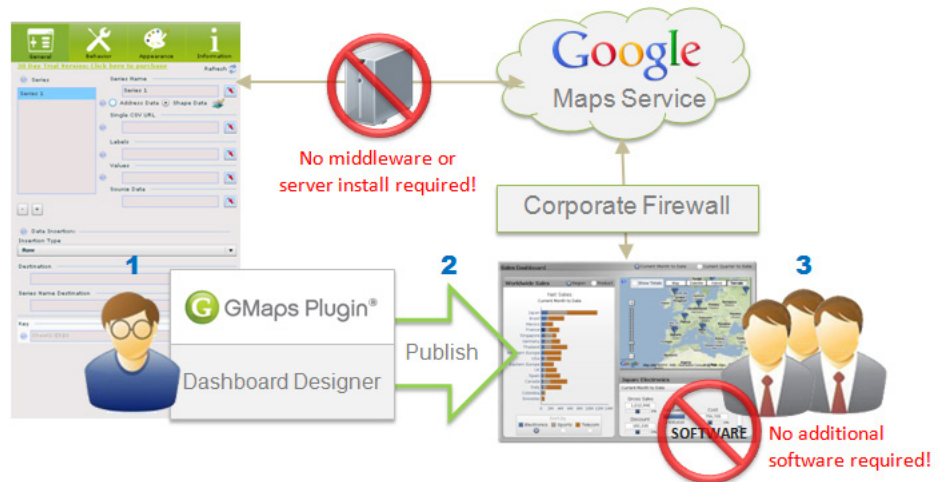


## Introduction

GMaps Plugin for SAP BusinessObjects Dashboards, SAP Crystal Dashboard Design, and Xcelsius® is a highly configurable component for visualizing and navigating geographic data within a Google Maps interface. Within the Xcelsius development environment dashboard designers can drag and drop GMaps Plugin onto the dashboard canvas to integrate multiple layers (points, regions, heat maps, routes) to create the ultimate mapping experience tailored to your business requirements. GMaps Plugin is fully integrated with SAP BusinessObjects Dashboard (formerly Xcelsius) APIs to create a seamless experience for drilling and visualizing data without any coding or complex configuration. GMaps Plugin integrates Google Maps Premier APIs for Flash to load map imagery based on the user's interaction with the map component. The following document outlines how GMaps Plugin interfaces with the Google Maps service to ensure maximum security of your proprietary data.

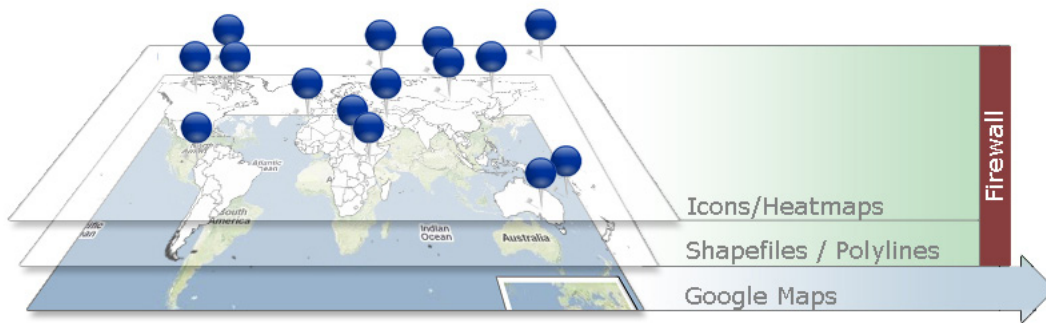
## Design & Deployment

1. Install GMaps Plugin inside of Xcelsius and configure maps user experience, icons, labels, shapefiles, and all other interactions.
2. Publish your dashboard to desktop applications (PPT, PDF), BusinessObjects Enterprise, or any enterprise web portal.
3. Business users can instantly access and navigate a powerful maps enabled dashboards behind the corporate firewall and security.



## Data Transacted to Google Maps Service

GMaps Plugin transacts only a few specific parameters to the Google Maps Premier API during SWF runtime (see “GMaps Plugin Properties that are Sent to Google Maps” below). These parameters identify what mapping image tiles are required to render the base map graphics.



GMaps Plugin contains all of the code required to render latitude/longitude data, icons, tool tips, info windows, labels, polygons, lines, routes, heat maps, and other metadata that is displayed to the end user. Like any other component within a SWF, the content is rendered locally on the end user's computer, secured behind your firewall and other security measures. GMaps Plugin will support HTTPS sites for organizations that build content that is accessible outside of the corporate firewall.

At no time will GMaps Plugin transact any data bound to the following Map Properties.

**Core Map Properties: Series Name, Labels, Values, Data Insertion**

**Icons/Heatmaps artwork and info-window labels:**

**Shapefile definitions or data**

**Icon Style or color definitions**

## Shapefiles

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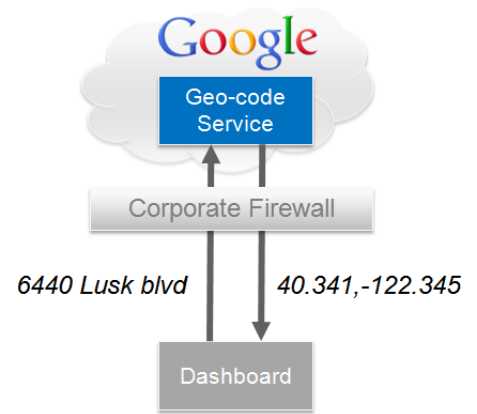
GMaps Plugin contains a shapefile parser that will consume ESRI shapefiles loaded on application/web servers located behind your corporate firewall. To render your organizational regions, thematic maps, market areas, etc, GMaps Plugin requires no interaction with the Google Maps service.

## Geocoding Exception

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GMaps Plugin is configured to natively interpret and render latitude,longitude data without communicating with Google servers to display data points.

If your dashboard requires the use of addresses in GMaps Plugin, it will automatically utilize the Google Maps geo-code service. In this process, GMaps Plugin will send ONLY the address data linked to the “Address Lat,Long Range” property to the Google Maps geo-code service. This service will immediately return the data as latitude/longitude so GMaps Plugin will then display the data. Google Maps Premier does not persist or use any data other than to convert and return the geo-code conversions for the single user session.



## GMaps Plugin Properties that are Sent to Google Maps

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The following are the only properties where linked data is transacted to the Google Maps API

**API Key (Trial and GMaps Plugin Standard)-** For GMaps Plugin Trial and Standard, the API key is used to identify your dashboard deployment

**License Key (GMaps Plugin Bundle Only)-** The license and Centigon Solutions generated authentication key is passed to Google Maps API to flag your page views. These keys identify your organization anonymously.

**Address Data-** Address data property will only transact data when it is NOT latitude,longitude data. (See geocoding exception above)

**Pan-to Property-** When using the pan to property, GMaps Plugin will send this single property to the Google Maps server so the map can obtain the correct map tile imagery.

**Zoom Level Property-** When using the zoom property, GMaps Plugin will send this single numeric value to the Google Maps server so the map can obtain the correct map tile imagery based on the zoom level.

**Standard Map Controls-** Google Maps includes standard controls for zooming, panning, and changing the map type.

## HTTPS Support

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**HTTPS Support-** GMaps Plugin will automatically connect to Google Maps Premier via HTTPS when GMaps Plugin is embedded in a secured web site and the SWF is accessed via HTTPS upon requesting HTTPS approved domains from Centigon Solutions support. HTTPS is NOT supported for GMaps Plugin Standard or GMaps Plugin Trial software.