

INTEGRATION OGC WEB SERVICES (OWS) WITH GOOGLE MAPS SERVICES

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ABSTRACT

OGC web services (OWS) have been maturely developed promoted and are widely accepted at the national and international level. OWS has shaped the design and development a geo-spatial information system for good decade. The proprietary Google Maps service has just emerged few years ago with overwhelming acceptance. Google Maps service provides open application interface (API), high-resolution satellite map and very detail road map over the territory of Thailand. The customizable Google map and its rich basemap are arousing more and more use of Google maps service and lead to a new paradigm of web mapping. Nevertheless most of mapping agency may have their own datasets and they have been already put into the standard service. Mashing-up both services, international vendor-neutral OWS and data-rich Google maps service will definitely improve a geo-spatial information service with very minimal cost and efforts. We develop an integration scheme. The implementation includes OGC Web Map Service (WMS), Web Feature Service (WFS), Style Layer Descriptor (SLD) and Filter Encoding (FE)for heterogeneous access and spatial analysis on tile-cached Google Map client. In this paper we elaborate the implemented techniques and realization of the service.