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Contract Software Purchase and Data Services

February 4, 2025

PROJECT TITLE:Data delivery and download for On-Premises or Remote Edge locations Mapping and Common Operating Picture	
#	Description	Amount
1	**Geospatial Cloud Serv** (Rocky Linux OVF) https://geospatialcloudserv.com Serves cached mbtiles & GPKG map tiles as XYZ, TMS and WMTS PostGIS Tables and GIS Files as OGC API TILES (Vector Tiles and Raster Tiles) and OGC API Features with KML endpoint for TAK static GIS Files (KML, GeoJSON, CSV, etc), zip files and Cloud Native/Optimized Files (GeoParquet, FlatGeoBuf, COPC, PMTILES, and COG GeoTIFF) - with range request headers *(In-progress WMS - PNG for BBOX and WCS- GeoTIFF or GeoPDF for BBOX - cached and dynamic vector tiles and raster tiles)* 3D Data - 3DTILES and SLPK as SceneServer DTED Data Serving and Quantized Mesh Terrain Tiles Serving and Elevation API to query elevation of point and add data and add data to linestring. Offers vector 2 raster tied to OSM Vector Tiles with pre-defined styles and users can load their own GL JSON Stylesheets Tile Group Blending/Merging/Compositing of layers Data Distribution Edge Server (download source data) Area of Interest/Operation Downloading API's and Front-End Web Apps (Map Tiles from URL or local MBTILES & GPKG, Mapping Services, Hosted Files) API for uploading and syncing data API for Data Conversion and Publishing to PostGIS API Endpoints with JSON response /services, file_list, cog, data_distribution Webpage for accessing services Mapping Engines available via any web browser (3D Terriajs and 2D Open Layers) Companion QGIS Plugin https://plugins.qgis.org/plugins/ts_manager/ Python Jupyter Notebook Environment with LeafMap Package	**$7,500/year** for 1 install of the following: Tile Server, Tile Utilities Offline Map Data Generator Map Tiling Vector2Raster Tiles 5 installs Offline Map Data Generator Android **$8,500/year** for 1 Tile Server, 2 Tile Utilities

	PocketBase Server - uses OIDC OpenID Connect and can be configured to use OAUTH2 Identity Provider or kept as it's own. Discover web page is secured and services. Team Collaboration Module with Location Sharing, Team Location Tracking, GeoFencing, Assignments/Tasks, Status Updates, Notifications, Real-Time API, Data Sharing, Forms and Form Builder, Chat Messaging with Attachments	2 Map Tiling 2 Offline Map Data Generator VectorTiles2RasterTiles
2	**Offline Map Data Generator** (Windows) Download any Online Mapping Data (MBTILES Raster Tiles from ESRI MapServer, ImageServer, OGC WMS, OGC WMTMS, XYZ Raster Tiles) Download Vector Tiles MBTILES Download GeoJSON from MapServer, FeatureServer and OGC WFS https://offlinedatadownloader.techmaven.net/windows/ Includes premium with Subscription for https://portfolio.techmaven.net/dataservices/pre-cached-offline-ready-data/ **Pre-Staged Data (FOUNDATIONAL GEOINT DATA)** **Worldwide Global Coverage and available by Countries, USA States, Canadian Provinces and some regions** Data Includes:(Includes access to web application) ● OSM - Open Street Map Vector Tiles MBTILES *(update Monthly from TMG Server) Compatible with OpenMapTiles/MapTilerData Styles* 0-14 90gb ● Contour Lines Vector Tiles w/ spot elevation MBTILES 9-14 144gb ● Hillshade Raster Tiles MBTILES 0-12 400gb ● Most States and Countries add ESRI WorldImagery Service Satellite Imagery to zoom level 15 or 16 ● Reference Lines Raster Tiles MBTILES 0-13 ● Reference Labels Raster Tiles MBTILES 0-13 ● Low Resolution satelite imagery 0-13 500gb ● Stamen Terrain Background (shaded relief) ● Thunderforest Outdoors ● MapZen Terrarium RGB Encoded Elevation/Terrain Tiles (only available in Regions, Countries) Points of Interest Database approximately 240 million fused together from five sources: NGA GeoNames, USGS BGN GNIS, OSM, Overture Maps Places and FourSquare Points of Interest - worldwide **Points of interest** available as GeoPackage Vector Features and 9 MBTILES vector tiles ● Administrative ● Populated Places ● Locality Area ● Streets Highways Roads Railroads ● Vegetation ● Hydrographic – Water features ● Undersea ● Spot	8 installs Offline Map Data Generator –Android **$9,500/year** 1 tile server 3 Tile Utilities 3 Map Tiling 3 Offline Map Data Generator VectorTiles2RasterTiles 12 installs Offline Map Data Generator –Android All three include 1 year access to Pre-Staged MBTILES Data

	● Hysography — Land features	*We update this data Monthly (NGA/USGS update weekly)*

	May not share data with other clients - each Virtual Machine allows for access to this data not to be hosted for sharing externally. **Offline Map Data Generator Android** ● Tile Downloader - XYZ Raster Tiles and Vector Tiles ● Mapping Services dynamic and cached downloader (MapServer, ImageServer, coming soon WMS and WMTS) ● Mapping Services dynamic (WFS and FeatureServer and MapServer) as GeoJSON and coming soon as KML ● Pre-staged data worldwide, Countries, US States, Canadian Provinces downloading ● Downloading from tile server, geo data server and 3D Scene Server /data_distribution endpoint	iOS and Android app include 50 installs. Pre-Staged Data from TMG Servers will require a login or key *(Tech Maven Geospatial Pre-Staged data is the item that cost me money and server resources)*
3	**Tile Utilities** (Windows) Clip Area of Interest Convert between tile formats Assemble or Merge Map Tiles https://portfolio.techmaven.net/apps/tile-utilities/	
4	**Map Tiling** (Windows) Create MBTILES Raster Tiles from GeoTIFF Convert SID, JP2, GeospatialPDF/GeoPDF to GeoTIFF Convert GIS Vector Data (SHP, GPKG vector features, KML, GPX, others) to Vector Tiles (MBTILES, PMTILES, GPKG) and Vector feature GPKG and FlatGeoBuf Convert CAD Data Convert Only some layers of GeoPDF to raster or vector Process VRT of multiple source input files https://maptiling.techmaven.net/	
5	**Vector Tiles to Raster Tiles** (Windows) Converts MBTILES Vector Tiles to Folder of XYZ Raster Tiles (use Tile Utilities to build GPKG or MBTILES) Can Build Topo/Terrain Style (OSM Vector Tiles, Contour Lines, Hillshade) Can Build Satellite Hybrid Style (OSM Vector Tiles and Satellite) Currently, this app only supports building a cache it does not support dynamic tile requests.	
6	**ATAK Plugin - GeospatialCloudServ APIs and Microservices** (users will configure IP/domain**)** *NOT READY/AVAILALBLE YET (Planned for April 2025)- will use a license key*	Included in Above Pricing

	- Access Pre-Staged Data Basemaps and Overlays in MBTILES - Access Data Distribution Endpoints and Discover Web Page for user loaded data in GeospatialCloudServ - Optional Paid Access to DTED Elevation Data - Optional Paid access to 3DTILES 3D Buildings - Download dynamic and cached mapping services as MBTILES - CLIP area of Interest of data in Geospatial Cloud Serv - Upload Data and Publish Data to POSTGIS database - Access Team Collaboration as Chrome Browser Web Page - Download Online GIS Data in many formats from any external URL or from GeospatialCloudServ (request KML or ESRI Shapefile or other TAK compatible format) - Optional Paid Access to TMG GeoRequest Area of Interest/Operation API - Optional Paid Access to TMG Elevate API - Optional Paid Access to other TMG Geoprocessing API's	
	This agreement includes unlimited software updates for the 1 year period. Links will be provided and a website to check status of new versions. Updates to Open Street Map Vector Tiles and Points of Interest in at least every 2 month cycle (we try for every month)	

Pricing is valid for 1 year. Payment can be made to Tech Maven Geospatial, LLC
and acceptable forms of Payment are ACH, Credit/Debit Card, Veem.com or PayPal. Terms are NET30.
Software and Data is NOT distributed without 100% payment being received.
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Contract for Software and Data Services and support		
Name and Title	Date	Signature