

GeoPackage Vector Tiles extensions

- Draft extensions developed in Vector Tile Pilots
Summary ER:
https://docs.ogc.org/per/19-088r2.html#geopackage_extensions
- Latest draft extensions:
<https://gitlab.com/imagemattersllc/ogc-vtp2/-/blob/master/extensions/>
- Vector Tiles Extension, Vector Tiles Attributes Extension
- Formats: Mapbox Vector Tiles, GeoJSON Vector Tiles
- Tile Matrix Set Extension: Support for Variable Width TMS, WorldCRS84Quad (level -1) with -180..180 latitude (blank above/below)

GeoPackage Vector Tiles extension

- *gpkg_extensions*:
 - *table_name* *gpkgext_vt_layers*, *gpkgext_vt_fields*:
extension_name: *im_vector_tiles*
- *gpkg_contents data_type*: *vector-tiles*
- New tables
 - *gpkgext_vt_layers*
 - *gpkgext_vt_fields*

GeoPackage Vector Tiles Attributes extension

- Attributes are in user defined table like regular GPKG features
- Using related table extensions: *gpkgext_relations* table
- *attributes_table_name* column in *gpkgext_vt_layers*

GeoPackage Mapbox Vector Tiles extension

- User-defined tiles table `tile_data`: Mapbox Vector tiles content
- *gpkg_extensions*
 - *column_name*: *tile_data*
 - *extension_name*: *im_vector_tiles_mapbox*

GeoPackage GeoJSON Vector Tiles extension

- User-defined tiles table *tile_data*: GeoJSON tile content
- *gpkg_extensions*
 - *column_name*: *tile_data*
 - *extension_name*: *im_vector_tiles_geojson*

GeoPackage TileMatrixSet extension

- New tables:
 - *gpkgext_tile_matrix_set*
 - *gpkgext_tile_matrix*
 - *gpkgext_tile_matrix_tables*
 - *gpkgext_tile_matrix_variable_widths*
- Replace existing tables with views:
 - *gpkg_tile_matrix_set*
 - *gpkg_tile_matrix*

Objectives for the sprint

12 : 45 : 87
FEB - 05 - 3254
167 78 894

OGC

- Work on producer / consumer of GeoPackage with vector tiles
 - Will provide sample GeoPackages from Vector Tile Pilots
- Discuss need for abstract specification topic on Vector Tiles
 - See [2DTMS issue #86](#)
- Discuss next steps for standardizing vector tiles extensions



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Thank You!

Community

- 500+ International Members
- 110+ Member Meetings
- 60+ Alliance and Liaison partners
- 50+ Standards Working Groups
- 45+ Domain Working Groups
- 25+ Years of Not for Profit Work
- 10+ Regional and Country Forums

Innovation

- 120+ Innovation Initiatives
- 380+ Technical reports
- Quarterly Tech Trends monitoring

Standards

- 65+ Adopted Standards
- 300+ products with 1000+ certified implementations
- 1,700,000+ Operational Data Sets Using OGC Standards

Contact info@ogc.org to schedule a meeting for an in-depth discussion with OGC staff and join our community today!

