

OGC-Khronos ISG Sprint Demo Event:



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Focus during the sprint

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- **Server component (GNOSIS Map Server)**

- GNOSIS Data Store
 - San Diego CDB imported from CDB
- 3D Tiles Generation on-the-fly
 - Implemented support for exporting textures to glTF
 - Implemented caching to address performance issue
 - On-going work developing support for multi-resolution
 - Used in ISG Sprint by *Steinbeis* and *InfoDao* clients
- Tiles API approach also supported (vector, elevation and coverage tiles)
- Individual models and textures available (referenced from points vector tiles)



- **Client Component (GNOSIS Cartographer)**

- Used in 3DC&T Pilot to access variety of 3D Tiles contents via GeoVolumes API & Tiles API
- Improvements in ISG Sprint, but only tested with local store as we focused on Server

Proposed API for updating 3D data

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- GeoVolumes API
 - Bridge between OGC API (Common) and 3D Tiles / i3s Bounding Volume Hierarchy
- Uploading new 3D models
 - POST to {collectionId}/models
- Instantiating new model with point
 - POST to {collectionId}/items
(Features – Transactions)
- *Coverages – Transactions* for elevation data
- Cached 3D Tiles invalidated and re-generated
- Possibility to generate Change Sets (delta updates)



Questions and Answers

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Thank you.

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