



2006 GIS-T Symposium Columbus Ohio

Migration of the Spatial Data Library into an Enterprise Geodatabase

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The Situation . . .

- ⓐ Over 144 shapefiles
- ⓐ Parent-child relationship
- ⓐ Replicated into 3 different projections
- ⓐ Maintenance
- ⓐ Updating



Migration Goals

- Ⓢ Reduced Staff Maintenance Effort
- Ⓢ Web Enable
- Ⓢ Ownership Buy-in
- Ⓢ Establish a Maintenance Cycle
- Ⓢ Maintain Shapefile Library
- Ⓢ Provide Level of Security



Migration Process

- ④ Reviewed Data Needs
- ④ Created and Prototyped Preliminary Schema
 - 'Maintained' database
 - 'Stored' database
- ④ Port Shapefiles to Geodatabase
 - Defined attribute domains
 - Defined topologies
 - Defined relationship classes
- ④ Revise, review & update schema, procedures and processes based on prototype results

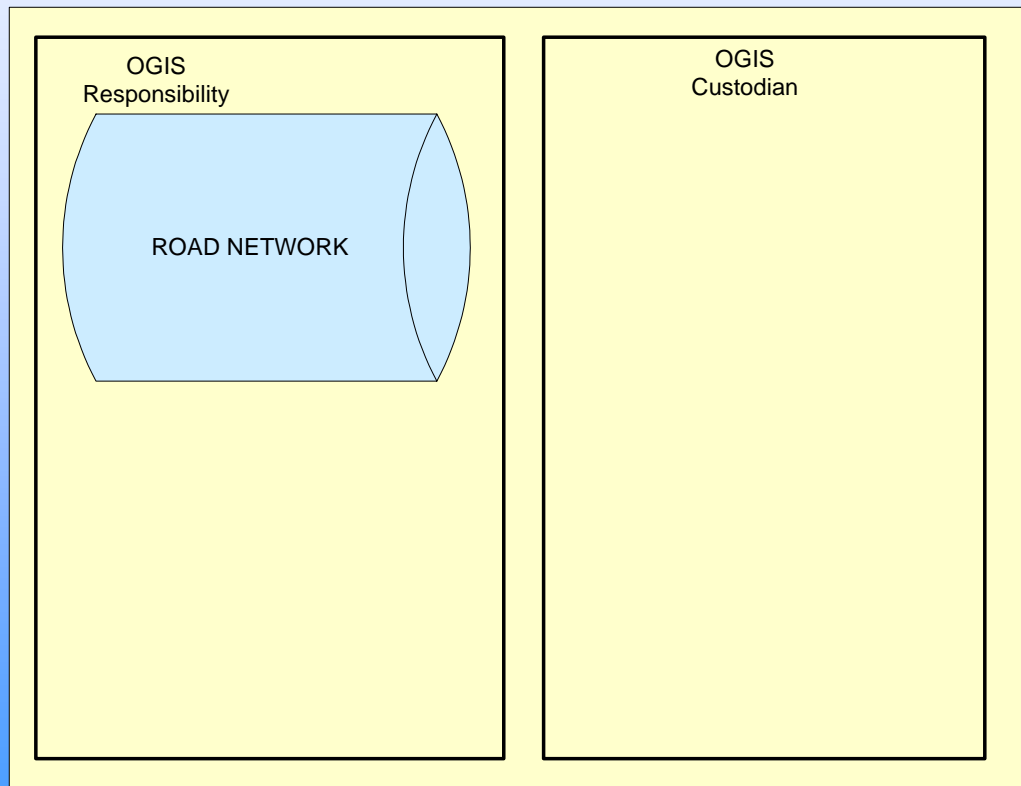


Migration Process (cont.)

- ④ Built Data Migration Scripts and Tools
- ④ Created Folders
 - Links
 - Archived
 - Shapes
 - In Box
- ④ Test Data Library Access and Performance
- ④ Document and Publish Revised Data Library



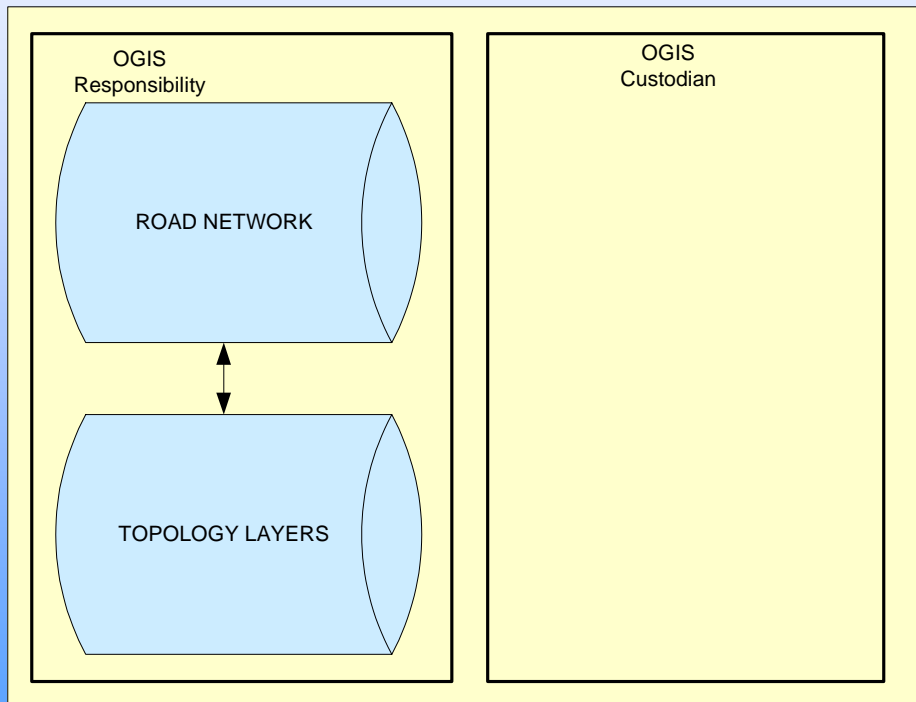
The "Road" Bucket



ENTERPRISE GEODATABASE



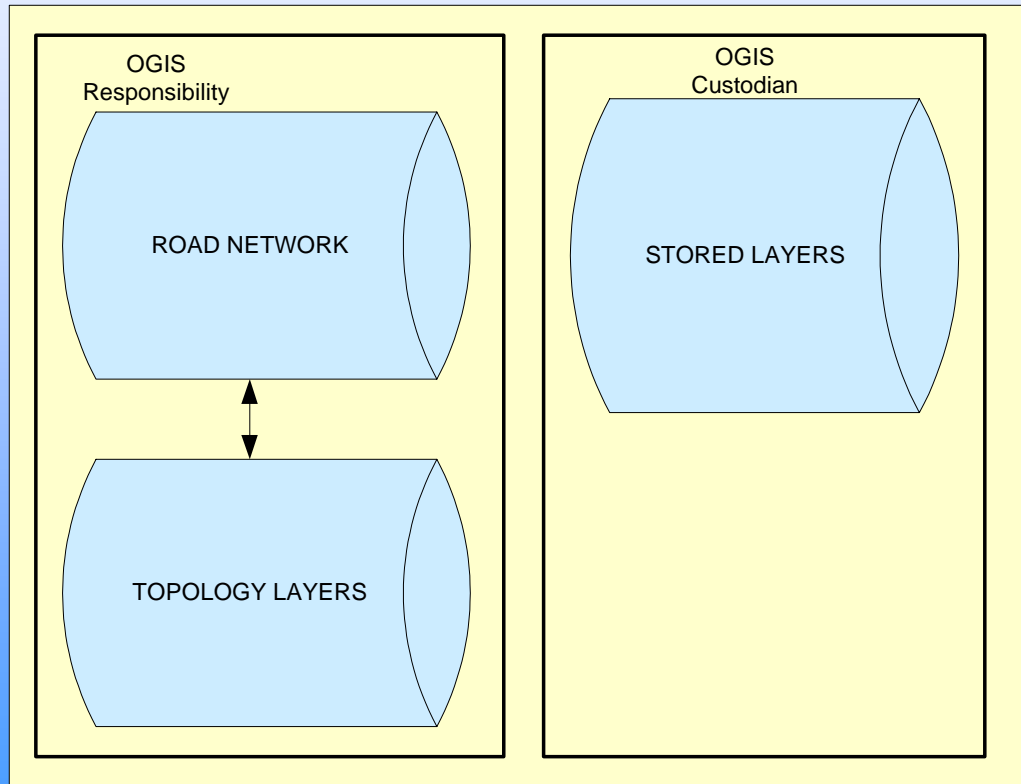
The "Topology" Bucket



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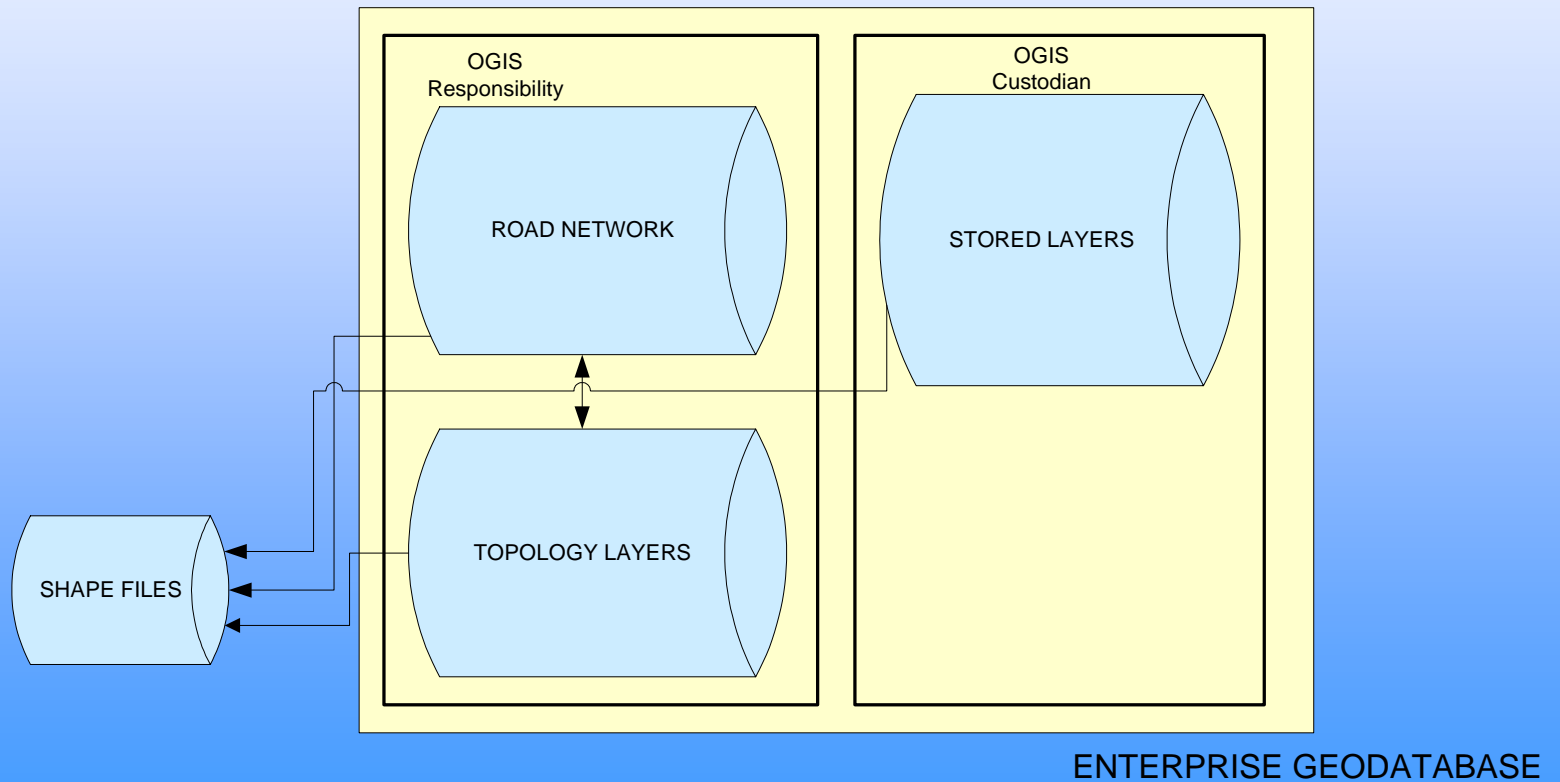
The "Stored" Bucket



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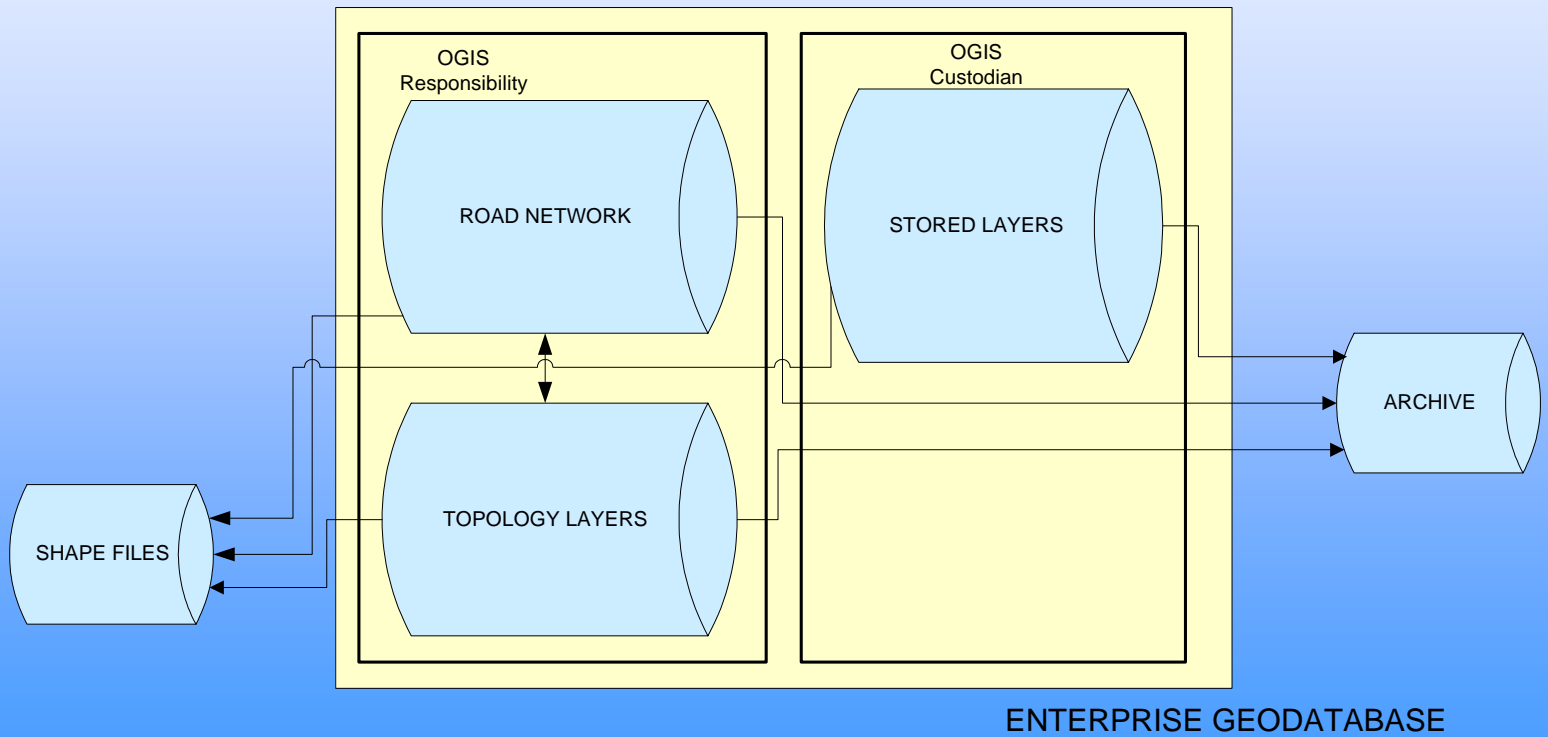


Shapefile Library



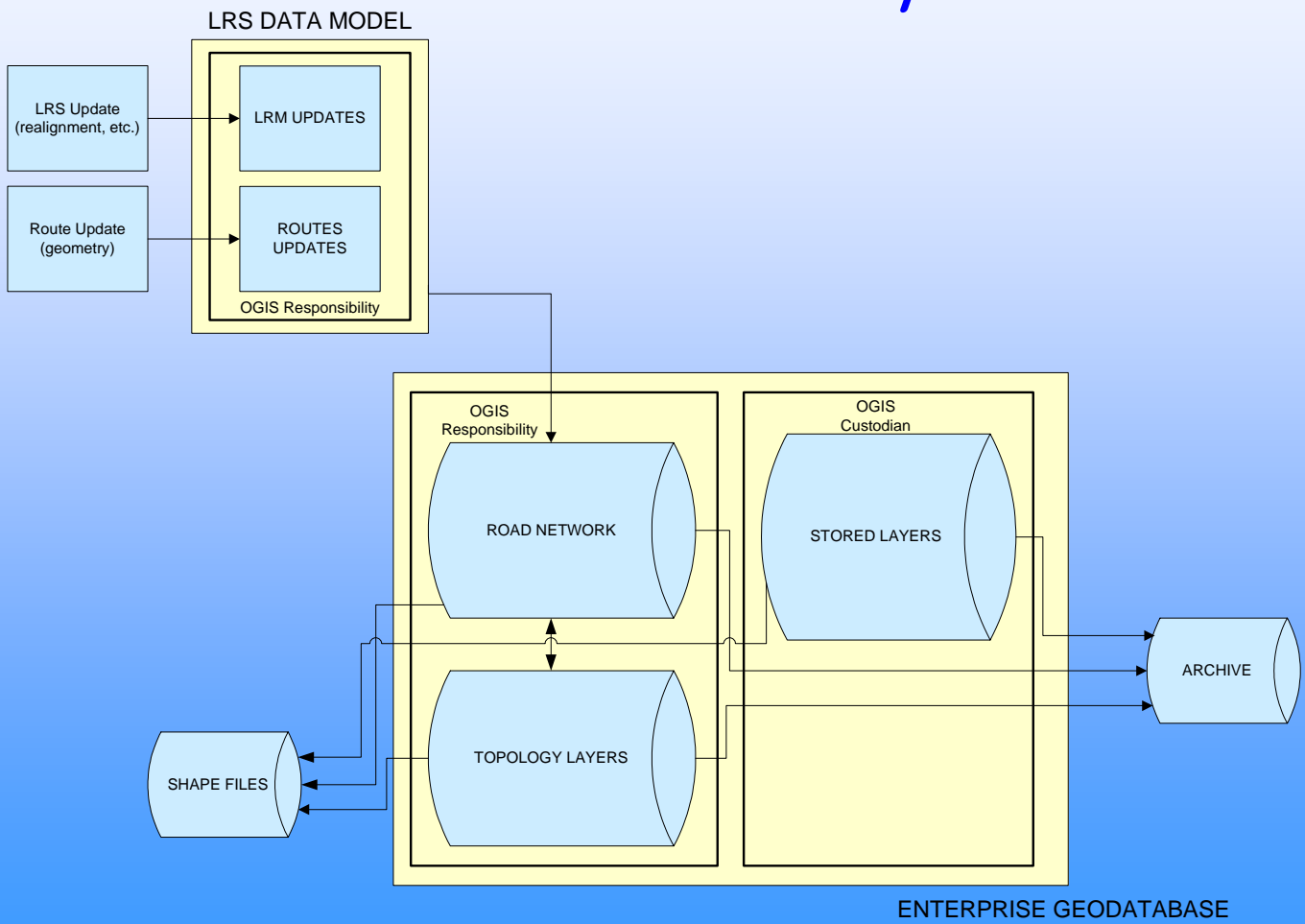


Archive Layers



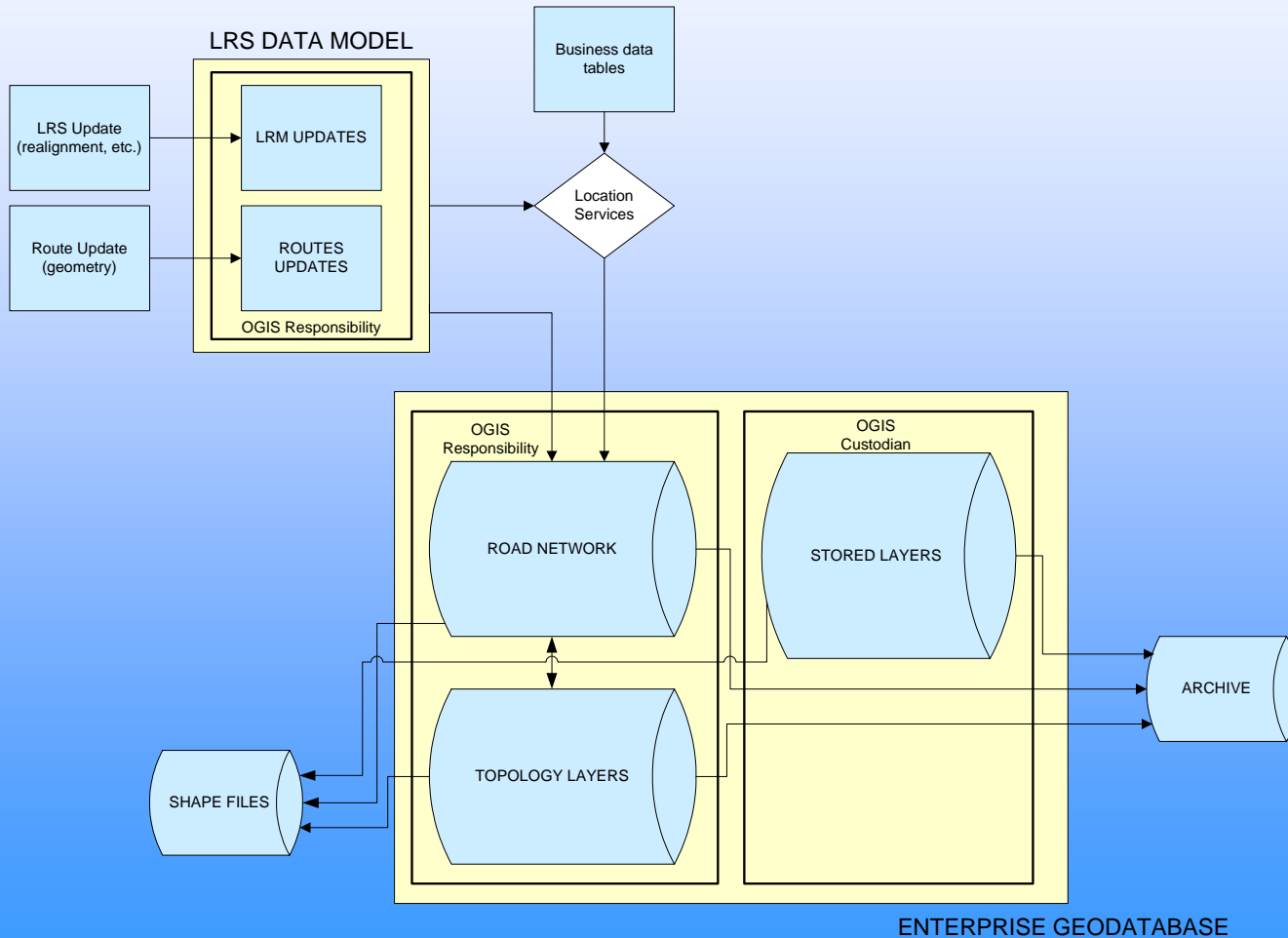


LRS Relationship





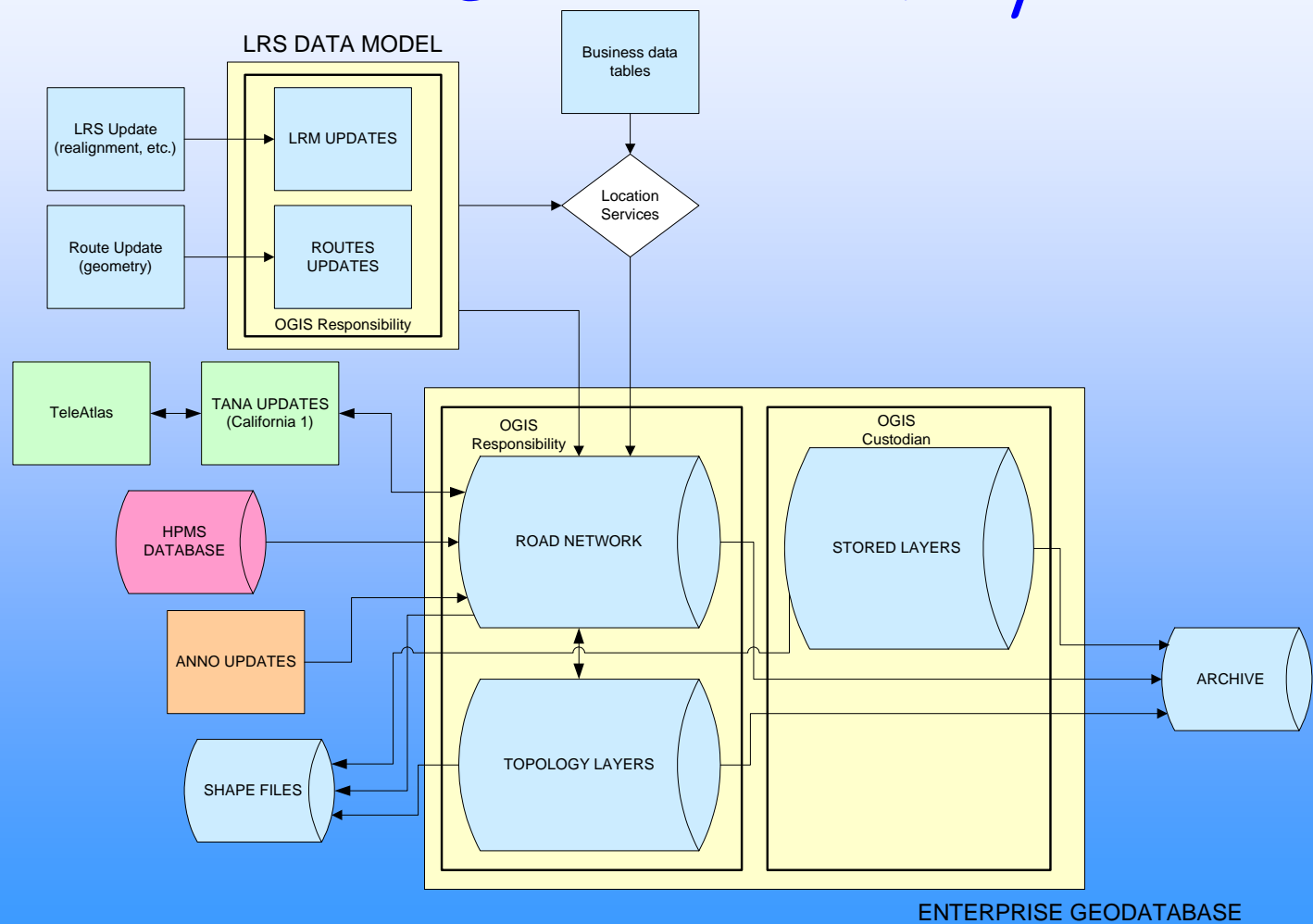
Business Tables Relationship



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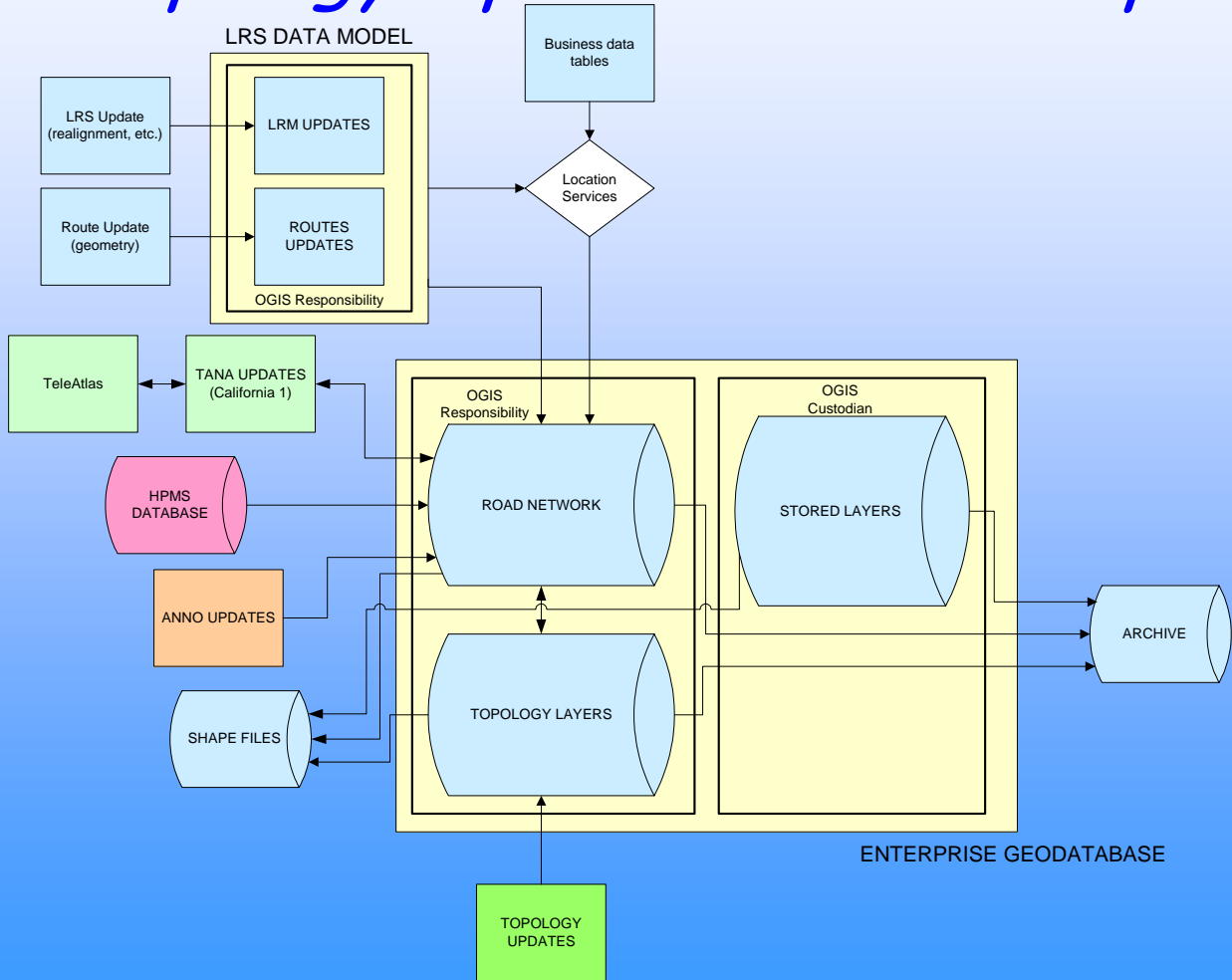
Road Data Relationship



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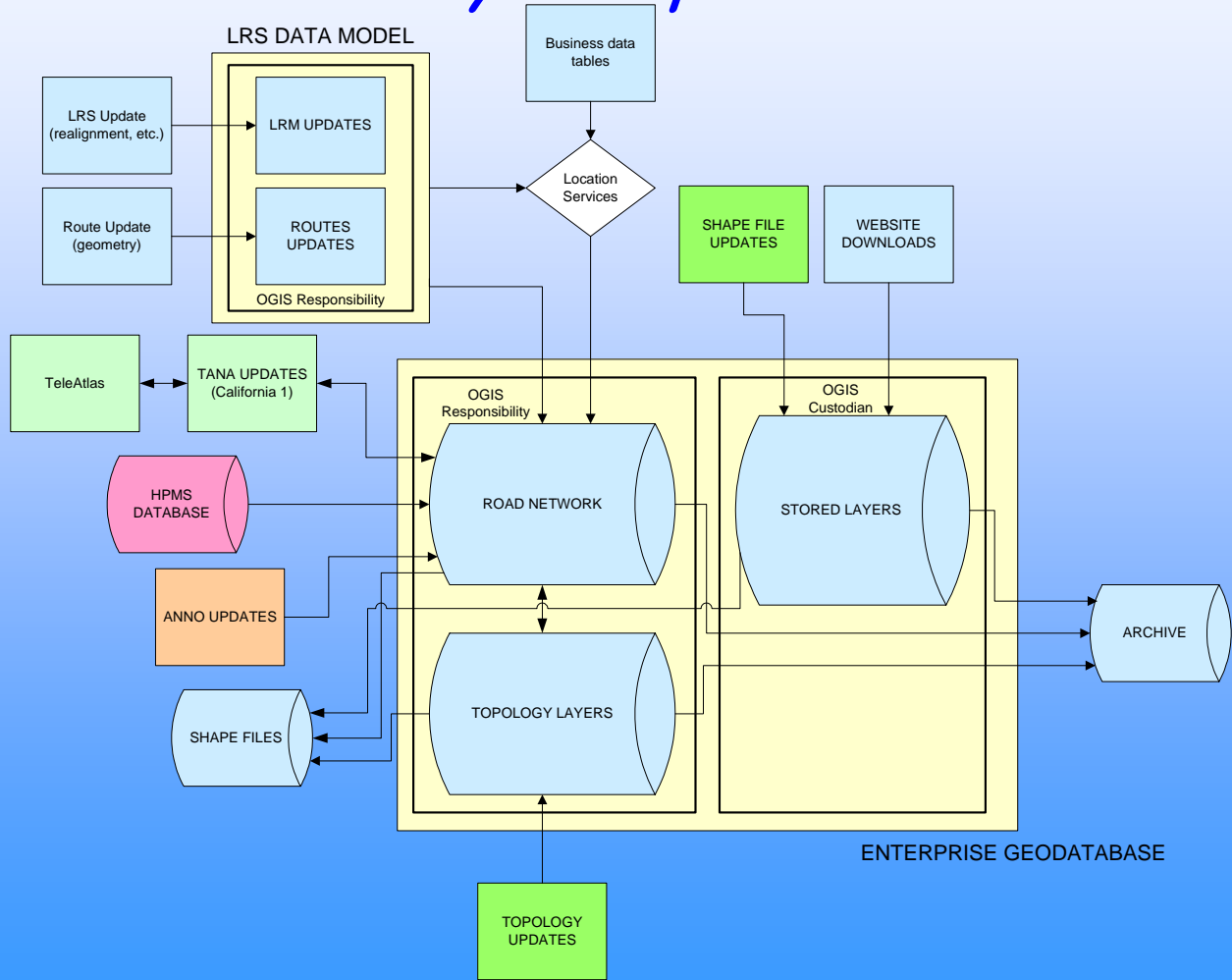


Topology Update Relationship



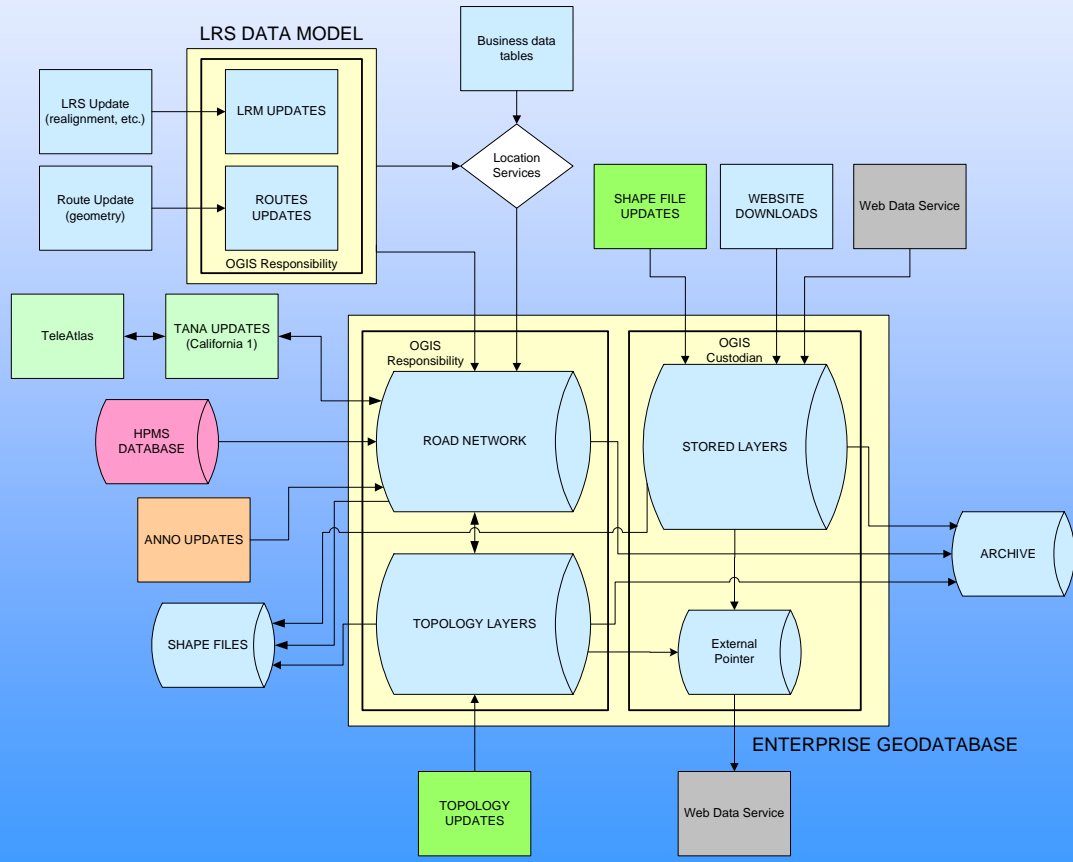


Stored Layer Update Relationship



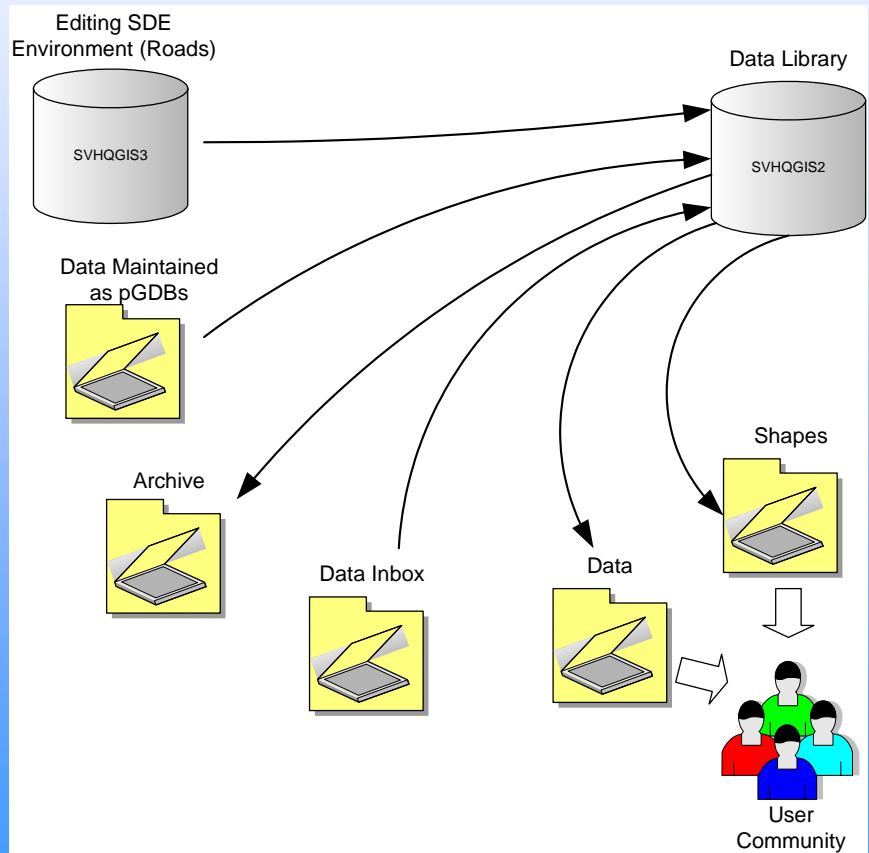
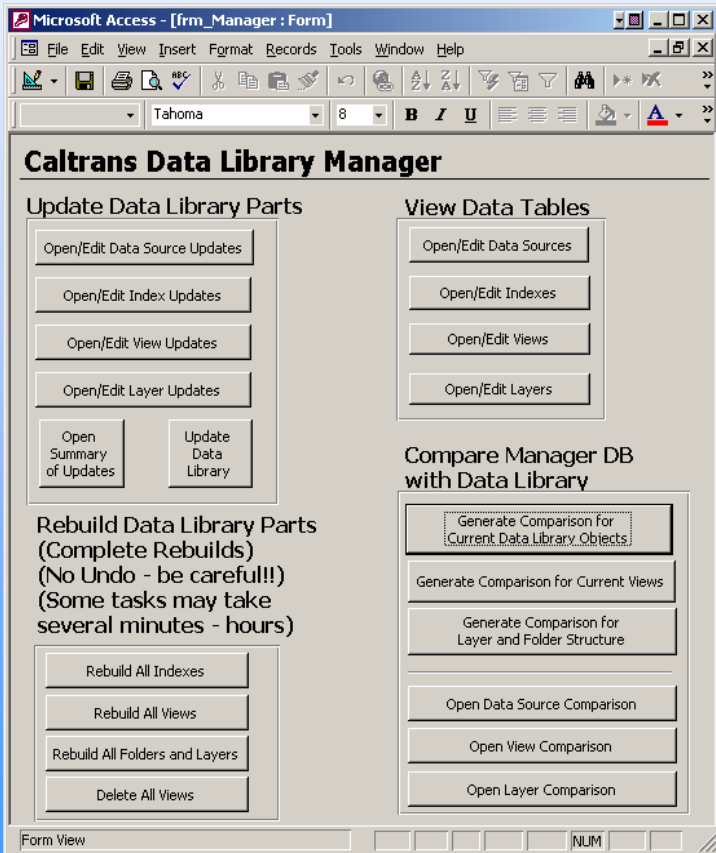


Future Web Service Relationship





Managing Data in the Ct GIS Data Library





Next Steps . . .

- ④ Implement Approved Geodatabase Design
 - Complete geodatabase install on SVHQGIS2
 - Populate new Shapefile library structure
 - Create accounts for access to SVHQGIS2
- ④ Library work
 - Install Data Library Manager
 - Preparation of Core Road Data and Topology
 - Implement Maintenance Schedule
 - Reconciliation of Topology “bucket”
 - Update Metadata



Questions?



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