

# ArcGIS™ Geodatabase Schema for Geological Map Production

DRAFT

## Overview

## Phase 1 - Geodatabase schema for geologic map production.

Based on the traditional linear workflow of spatial data, datasets in various formats from geologists are transferred to cartographers/GIS technicians where it is edited and manipulated to confirm to this geodatabase schema. Finally, after publication of the hardcopy, the spatial data is imported into the Geoscience Data Repository (GDR/ArcSDE™) where it is made available for internet applications.

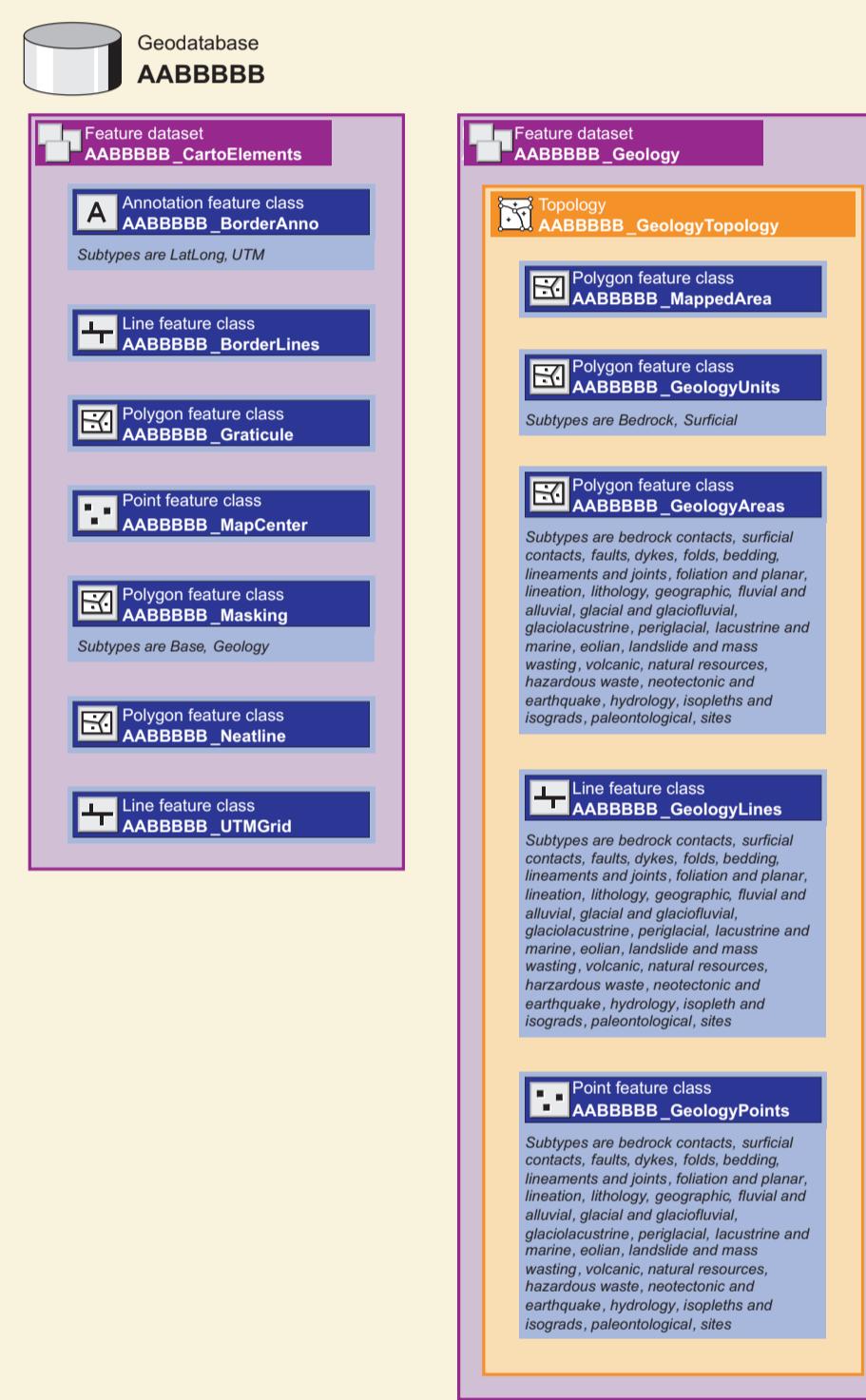


## Phase 2 - Enterprise geodatabase schema solution for spatial data management.

A spatial data management system will centralize the GDR in an enterprise ArcSDE™ solution. Initially, templates and tools will ensure that the spatial data inputted by geologists will adhere to published standards and recommended practices. Additional processing of the spatial data by GIS technicians will ensure data quality and integrity. Finally, the data is made available, not just for cartographic map production, but for query and analysis, internet and web-mapping applications, and digital downloads.



## Geodatabase Quick Glance



The ABBBBBB is a placeholder for a prefix appended to all elements of a geodatabase. The characters represent the following:  
 AA - the type of map publication, where AA is either  
 AS - for A-Series map publication  
 OF - for Open file map publication  
 BU - for map bulletin  
 BBBB - the publication number

Tables related to feature classes in the ABBBBBB\_Geology feature dataset

- Table ABBBBBB\_GeologyLines**: Subtypes are bedrock, faults, folds, bedding, lineation, lithology, geochemical, periglacial, lacustrine, marine, volcanic, natural resources, and paleontological.
- Table ABBBBBB\_GeologyPoints**: Subtypes are bedrock, surface contacts, faults, folds, bedding, lineation, lithology, geochemical, periglacial, lacustrine, marine, volcanic, natural resources, and paleontological.
- Table ABBBBBB\_GeologyRel**: Subtypes are border, fault, fold, bedding, lineation, lithology, geochemical, periglacial, lacustrine, marine, volcanic, natural resources, and paleontological.
- Table ABBBBBB\_GeologyUnits**: Subtypes are bedrock, surface contacts, faults, folds, bedding, lineation, lithology, geochemical, periglacial, lacustrine, marine, volcanic, natural resources, and paleontological.
- Table ABBBBBB\_GeologyAreas**: Subtypes are border, surface contacts, faults, folds, bedding, lineation, lithology, geochemical, periglacial, lacustrine, marine, volcanic, natural resources, and paleontological.
- Table ABBBBBB\_GeologyPolygons**: Subtypes are border, surface contacts, faults, folds, bedding, lineation, lithology, geochemical, periglacial, lacustrine, marine, volcanic, natural resources, and paleontological.
- Table ABBBBBB\_GeologyFeatures**: Subtypes are border, surface contacts, faults, folds, bedding, lineation, lithology, geochemical, periglacial, lacustrine, marine, volcanic, natural resources, and paleontological.
- Table ABBBBBB\_GeologyMappers**: Subtypes are border, surface contacts, faults, folds, bedding, lineation, lithology, geochemical, periglacial, lacustrine, marine, volcanic, natural resources, and paleontological.
- Table ABBBBBB\_GeologyUTMGrid**: Subtypes are border, surface contacts, faults, folds, bedding, lineation, lithology, geochemical, periglacial, lacustrine, marine, volcanic, natural resources, and paleontological.

## CartoElements Feature Dataset

Most of the feature classes associated with the map border are imported from the coverage model.

