



DAP SQL Server Database Schema

Technical Note



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Geosoft Incorporated
Queen's Quay Terminal
207 Queen's Quay West
Suite 810, PO Box 131
Toronto, Ontario
M5J 1A7
Canada
Tel: (416) 369-0111
Fax: (416) 369-9599

Website: www.geosoft.com

E-mail: info@geosoft.com

Support

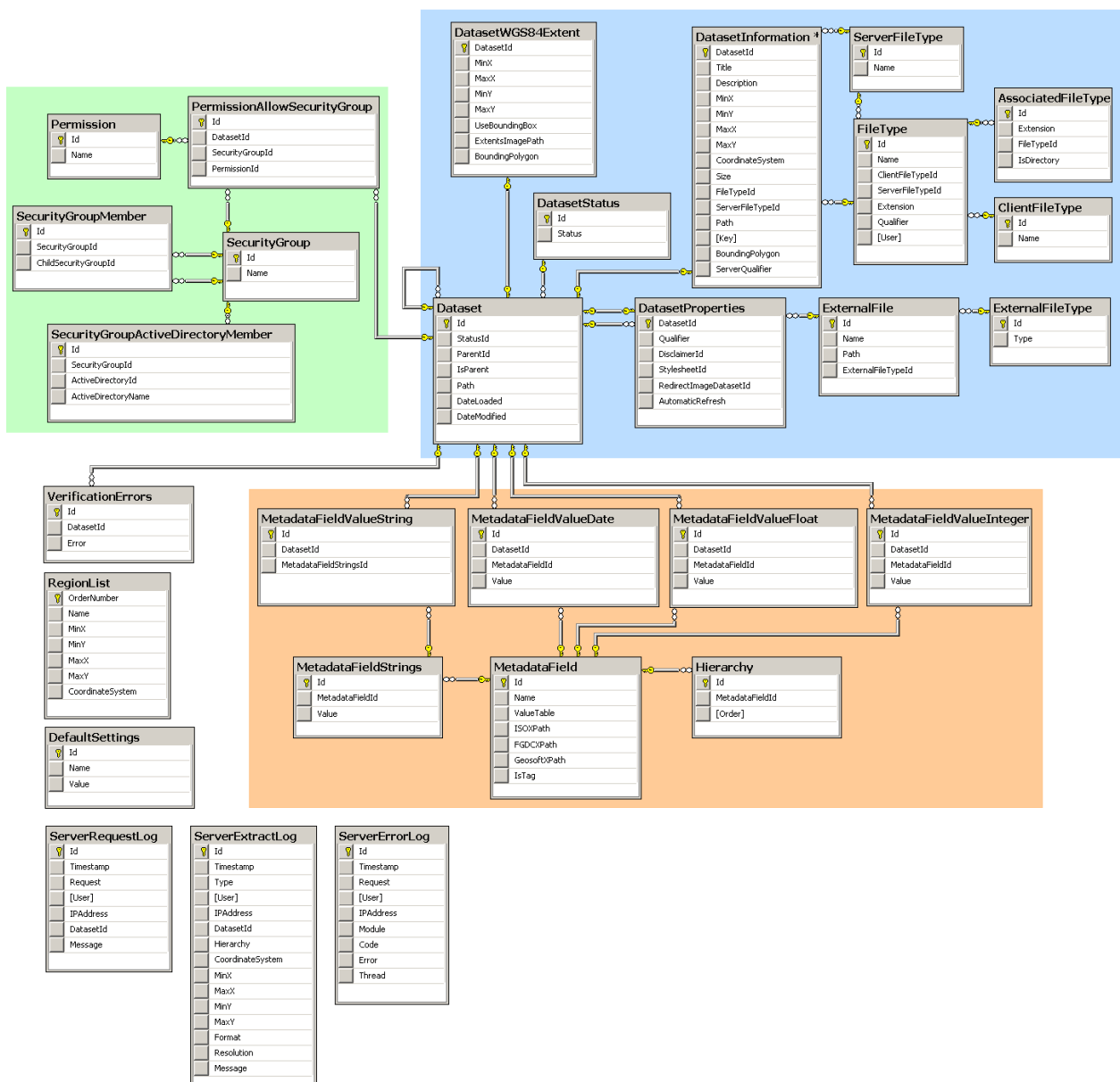
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DAP Catalog SQL Database Schema

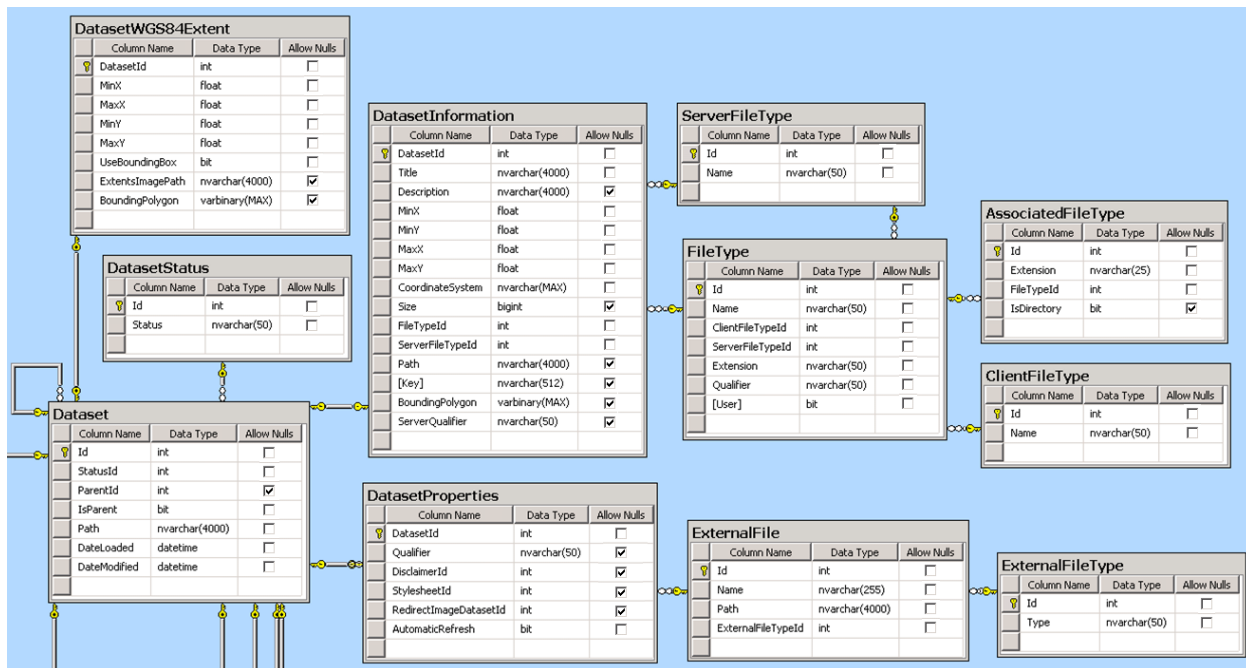
Full Database Schema

The schema for the DAP Catalog SQL Server database is shown below. The *Dataset* table is the main table. The tables should not be edited directly except by or under the guidance of a Geosoft Solution Consultant.




Dataset Properties

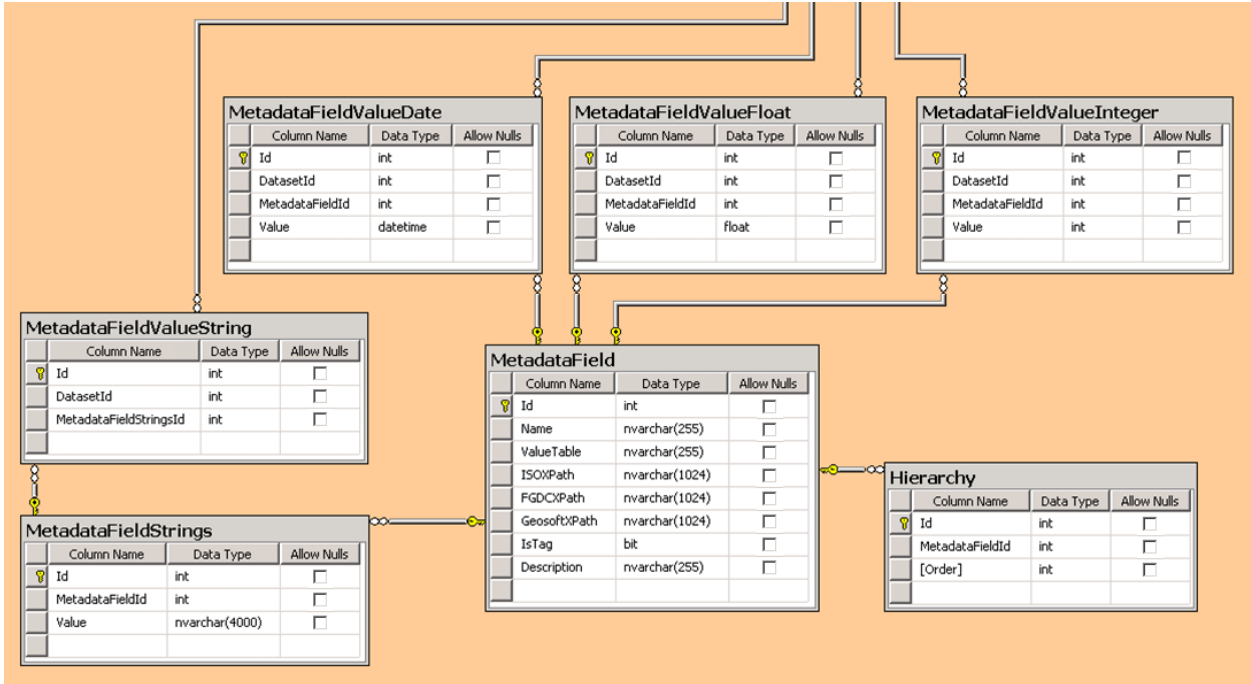
Dataset table and related tables contain all the datasets in the DAP Managed Exploration Information System. Properties are set by the DAP Data Manager through the DAP Administrator web application. Supported file types are managed in the DAP Administrator web application Settings.



Metadata and Hierarchy Tags

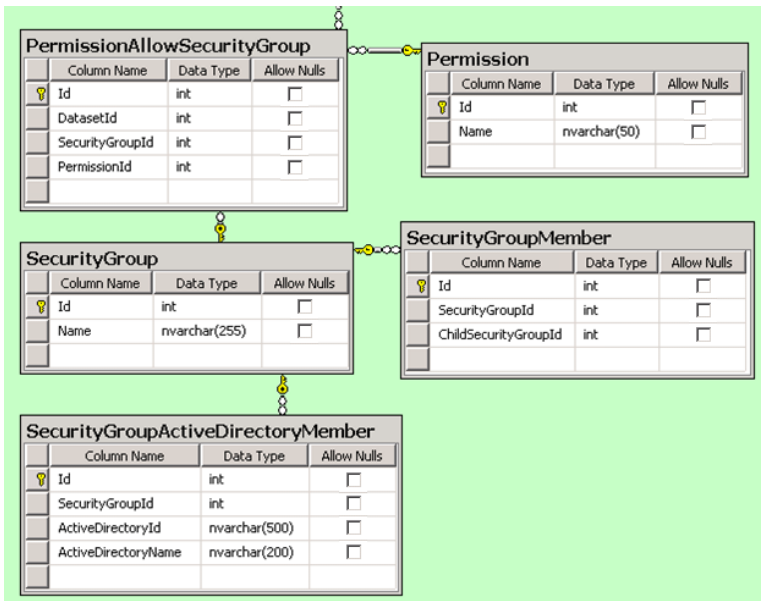
DAP 12 introduced one metadata database per DAP Server. The *datasetid* and *path* fields in the *Dataset* table are used by the DAP Administrator service and connect to the metadata tables.

 *Note that the detailed metadata schema is not shown here as this is customized for each DAP Server.*



Security

The *SecurityGroup* table contains the DAP security users and groups.



Logging

The Server Log tables are used in DAP Server logging.

ServerRequestLog			
Column Name	Data Type	Allow Nulls	
Id	int	<input type="checkbox"/>	
Timestamp	datetime	<input type="checkbox"/>	
Request	nvarchar(64)	<input type="checkbox"/>	
[User]	nvarchar(512)	<input type="checkbox"/>	
IPAddress	nvarchar(128)	<input type="checkbox"/>	
DatasetId	int	<input type="checkbox"/>	
Message	nvarchar(4000)	<input type="checkbox"/>	

ServerErrorLog			
Column Name	Data Type	Allow Nulls	
Id	int	<input type="checkbox"/>	
Timestamp	datetime	<input type="checkbox"/>	
Request	nvarchar(64)	<input type="checkbox"/>	
[User]	nvarchar(512)	<input type="checkbox"/>	
IPAddress	nvarchar(128)	<input type="checkbox"/>	
Module	nvarchar(256)	<input type="checkbox"/>	
Code	int	<input checked="" type="checkbox"/>	
Error	nvarchar(4000)	<input type="checkbox"/>	
Thread	int	<input checked="" type="checkbox"/>	

ServerExtractLog			
Column Name	Data Type	Allow Nulls	
Id	int	<input type="checkbox"/>	
Timestamp	datetime	<input type="checkbox"/>	
Type	nvarchar(64)	<input type="checkbox"/>	
[User]	nvarchar(512)	<input type="checkbox"/>	
IPAddress	nvarchar(128)	<input type="checkbox"/>	
DatasetId	int	<input checked="" type="checkbox"/>	
Hierarchy	nvarchar(4000)	<input type="checkbox"/>	
CoordinateSystem	nvarchar(4000)	<input type="checkbox"/>	
MinX	float	<input type="checkbox"/>	
MaxX	float	<input type="checkbox"/>	
MinY	float	<input type="checkbox"/>	
MaxY	float	<input type="checkbox"/>	
Format	nvarchar(512)	<input type="checkbox"/>	
Resolution	float	<input type="checkbox"/>	
Message	nvarchar(4000)	<input type="checkbox"/>	

Other Tables

The *DefaultSettings* table stores the initial values used in the DAP Administrator web application Settings area.

DefaultSettings			
Column Name	Data Type	Allow Nulls	
Id	int	<input type="checkbox"/>	
Name	nvarchar(255)	<input type="checkbox"/>	
Value	nvarchar(1024)	<input type="checkbox"/>	

The *RegionList* table contains the names and bounding x and y extents (in longitude and latitude) presented to the user in the DAP client application.

RegionList			
Column Name	Data Type	Allow Nulls	
OrderNumber	int	<input type="checkbox"/>	
Name	nvarchar(50)	<input type="checkbox"/>	
MinX	float	<input type="checkbox"/>	
MinY	float	<input type="checkbox"/>	
MaxX	float	<input type="checkbox"/>	
MaxY	float	<input type="checkbox"/>	
CoordinateSystem	nvarchar(25)	<input type="checkbox"/>	

The *VerificationErrors* table contains errors associated with dataset that fail the verification process. These can be seen in the Errors tab of the DAP Administration web application.

VerificationErrors			
Column Name	Data Type	Allow Nulls	
Id	int	<input type="checkbox"/>	
DatasetId	int	<input type="checkbox"/>	
Error	nvarchar(4000)	<input type="checkbox"/>	