



# DAP Limits

Technical Note



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Please send comments or questions to [info@geosoft.com](mailto:info@geosoft.com)

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## **Support**

For obtaining technical support, email [support@geosoft.com](mailto:support@geosoft.com)

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## DAP Limits

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DAP limits are provided to assist you when installing, setting up and running the Geosoft DAP Server and DAP Administrator. Unless otherwise stated, these are maximum limits and should always be maintained.

### Configuration Limits

Invalid Characters – \ / : \* ? " < > |



*Invalid characters are not permitted in any folder or file name in the DAP system.*

- Name – Maximum 64 Characters
- Admin Name – Maximum 64 Characters
- Admin Number – Maximum 32 Characters
- Admin Email – Maximum 64 Characters
- Number of Services (Meta, Extract, Image, Catalog) – Maximum 16
- Service Name – Maximum 32 Characters
- Service URL – Maximum 256 Characters
- Plugin Namespace - Maximum 32 Characters
- Number of Plugins – Maximum 16



*DAP plugins enable 3<sup>rd</sup> party companies to write a set of DLLs to catalog and publish data sources/types that are not supported by the core DAP technology. In total, up to 16 custom plugins are supported by a DAP server.*

### DAP Login Limits


- User Name – Maximum 64 Characters
- User Password – Maximum 64 Characters
- Domain – Maximum 256 Characters

### DAP Administrator Configurable Limits

- Number of datasets in the List of Datasets – 500 (configurable)
- Incoming queue delay – 5 minutes (configurable)


## Catalog Limits

- › Number of DAP groups – Maximum 64
- › Number of snapshots – Maximum 6
- › Number of large datasets – Maximum 65,536


 *To determine if a dataset is considered 'large,' the DAP Administrator applies two criteria; spatial extent and image density. To apply these criteria, the DAP Administrator program first renders the dataset as an image of 128 rows \* 256 columns. Then, the first criteria (spatial extent) requires that the dataset has a spatial extent that is over 8 degrees in longitude or latitude. If the dataset does meet these criteria, then it is considered a large dataset; if it does not meet the first criteria, then the second criteria - image density - is applied.*

*If less than 95% of the pixels in the rendered image has a value (not dummy), then this is considered a large dataset. Examples of large datasets are global coastlines and global DEM. Area of interest (AOI) search uses dataset extents only for small datasets. For a large dataset, AOI search first checks for dataset extents and then pixel values in the image file.*

- › Number of hierarchy depth – Maximum 256

 *This number refers to the number of folder levels, including virtual folders, that are allowed in a DAP catalog. However, we recommend no more than 5 or 6 levels of subfolders.*

- › Catalog results – Maximum 5000

 *This is the maximum number of datasets returned from a DAP search. DAP returns the datasets in a folder that is clicked in a DAP client application, and does not include any datasets outside of the folder. Hence, this limit is physically the maximum number of datasets in a Windows file folder. This is a reasonable limit and balance between users' data and DAP performance. For example, a folder with 5000 DAP datasets could have, depending on the data file types, up to 20,000 files.*

## Extraction Limits

- › Number of extraction threads – Maximum 128
- › Number of extractions remembered in history – Maximum 1024
- › Number of hours extraction history saved – Maximum 24 hours
- › Size of Extraction memory – Maximum 512 MB
- › Minimum image size – Width > 10 and Height > 10

 *No data is returned if the raster image is less than 10 \* 10 (in pixels).*

- › Minimum ECW size – Width > 128 and Height > 128

 *This depends on whether ECW license is enabled on the DAP Server.*

- › Re-project memory – Maximum 128 MB

## Disclaimer Limits

- » Number of datasets to return disclaimers for – Maximum 32



*This is more a limitation in DAP client API. It has no direct impact to end users.*