

# Find Stems

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[Grouper Web Services](#)

## Description

Find stems search for stems based on name, attribute, parent stem, etc. Can build queries with group math (AND / OR / MINUS)

## Features

- Use [query type](#) to build one query object
- For AND|OR|MINUS you can link up multiple queries into one
- Returns stems
- Can actAs another user
- v2.1 and later, you can sort and/or page the results of individual filter types: parent stem, and approximate group name. Can sort on name, displayName, extension, or displayExtension.

## Find stems Lite service

- Accepts one query to search (cannot use group math)
- Documentation: [SOAP](#) (click on findStemsLite), [REST](#) (click on findStemsLite)
- For REST, the request can put data in query string (in URL or request body)
- REST request (colon is escaped to %3A): GET /grouper-ws/servicesRest/v1\_3\_000/stems
  - Note: if passing data in request body e.g. actAs, use a POST
- (see documentation above for details): [Request object](#), [response object](#)
- [Response codes](#)
- [Samples](#) (all files with "Lite" in them, click on "download" to see file)

## Find stems service

- Accepts multiple query objects in a graph (can use group math)
- Documentation: [SOAP](#) (click on findStems), [REST](#) (click on findStems)
- REST request (colon is escaped to %3A): POST /grouper-ws/servicesRest/v1\_3\_000/stems
- (see documentation above for details): [Request object](#), [response object](#)
- [Response codes overall](#), [response codes for each assignment](#)
- Returns an overall status, and a status for each assignment
- [Samples](#) (all files without "Lite" in them, click on "download" to see files)