

Unresolvable Subject Deletion Utility (USDU)

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This topic is discussed in the ["Grouper Maintenance" training video](#).

Unresolvable Subject Deletion Utility (USDU)



As of Grouper v2.4, updates were made to allow [deleting subjects after being unresolvable for X days](#).

As of Grouper v2.5, USDU has been changed to perform other functions as well. See [Grouper USDU v2.5+](#). Because of these changes, USDU should be run using the [daemon](#) now instead of the instructions in the "Usage" section below.

The Unresolvable Subject Deletion Utility (USDU) finds and optionally deletes memberships for subjects which can not be found by their source.

An unresolvable subject is a subject that can not be found by its source. A subject may be unresolvable because of a temporary or permanent source failure, or because it was removed from its source before memberships or privileges were deleted or revoked.

This utility attempts to lookup every member's subject. If a subject can not be found, it's immediate memberships are printed and optionally deleted.

A future version may extend the Source class to provide more efficient lookups of subjects.

Usage

```
$GROUPER_HOME/bin/gsh.sh -usdu <command line arguments>
```

Without any arguments, USDU prints its usage

```
usage: USDU -all | -source <arg> | -uuid <arg> [-delete] [-start <arg>]
-all          find unresolvable subjects from all sources
-delete       delete memberships and privileges
-source <arg> find unresolvable subjects from source
-start <arg>  start session as this subject, default GrouperSystem
-uuid <arg>   find unresolvable subject with member uuid
```

Unresolvable subjects are printed to stdout.

If an unresolvable subject is not a member of any groups:

```
member_uuid='<uuid>' subject='<id>' no_memberships
```

For every group or stem and list that an unresolvable subject is a member of:

```
member_uuid='<uuid>' subject='<id>' group|stem='<name>' list='<name>' [delete]
```

For every unresolvable subject, usdu prints one line for every immediate membership. If an unresolvable subject is not a member of any groups and has no privileges, usdu prints no_memberships.

Find unresolvable subjects from all sources

```
$GROUPER_HOME/bin/gsh.sh -usdu -all
member_uuid='e58697e4-...' subject='id1'/'source'/'person' group='stem:group1' list='members'
member_uuid='e58697e4-...' subject='id2'/'source'/'person' group='stem:group2' list='members'
...
```

Find unresolvable subjects from a specified source

```
$GROUPER_HOME/bin/gsh.sh -usdu -source CustomSource
```

Find unresolvable subject via member uuid

```
$GROUPER_HOME/bin/gsh.sh -usdu -uuid e58697e4-11a5-4082-b318-cb1e79191923
```

Delete unresolvable subject from all groups

```
$GROUPER_HOME/bin/gsh.sh -usdu -uuid e58697e4-... -delete  
member_uuid='e58697e4-...' subject='idl'/'source'/'person' group='stem:group1' list='members' delete
```

Details

This utility finds and deletes memberships and privileges. It is possible for an unresolvable subject to be a creator or modifier of a group, in that case, calling `Group.getCreateSubject()` or `Group.getModifySubject()` will result in a `SubjectNotFoundException`.

Unresolvable subjects are not deleted from the `grouper_members` table. If an unresolvable subject becomes resolvable again, it will retain its member uuid.