## Operations for Users, Groups, Projects and Data

Users, Groups, Projects and Data have independently assigned operations; the combinations of these are based on the following hierarchy-

* When group is read only all projects and data belonging to that group are also read only.
* When project is read only all data belonging to that project are also read-only.
* For an operation to be allowed it must be on both the data and user assigned operations.

This allows projects to be archived by moving them to a read only group for archiving without having to change all the project and data operations

User

`Group

Data

User

Project

## Publication Status for Groups, Projects and Data

Group, Project and Data have independently assigned publication statuses:-

* When data is approved it cannot be updated or deleted
* When project is approved no further data can be added
* When group is approved no further projects may be added

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Publication Status |  | Visibility/Accessibility | Data | Project | Group |
| Uncontrolled | Data is Uncontrolled | Can be Read, Updated, Deleted and Downloaded | Data is active,  The creator has uploaded data; it has not been verified by Checker or Approver. | Project is active  Data can be created | Group is active  Projects can be created |
| Approved | Data is Controlled | Cannot be Updated or Deleted | Data item has been verified by a checker and authorised by an approver for consumption by the project and group members | All project data has been verified and is approved for consumption by project and group members  This would only happen when the project is no longer active and all data is archived read-only | All data has been verified and is approved. for consumption by project and group members  This would only happen when the group is no longer active and all data is archived readonly |