Use Case: Manage write control with ticket PIDs

Goal:
Control write access to a specific collection for a specific user.

Actors: user (human), system, manager (human)

Summary:
In a repository that organizes objects in collections, policies exist that demand that users do not modify such collections arbitrarily. For instance, adding or replacing new collection elements must be restricted, and for this purpose, a ticketing system is used that is ultimately based on PIDs.

A) Initial assignment of a ticket that gives a specific user permission to modify a collection.
Precondition: Objects have PIDs assigned

1. Manager requests a ticket PID from the system to give permission to a user for a specific collection under some restrictions
2. The system creates a ticket PID and stores information with it that points both to the data collection and to the user; this also includes restrictions.

B) A user modifies a collection via a previously assigned ticket.
Precondition: A) done.

1. User submits ticket PID to the system with a specified request to write new data to the collection
2. The system accesses ticket PID information and decides based on that record and the current system status:
   1. The remaining write cycles on the ticket have expired (volume, number of files) or the allowed time period is not matching. Use case terminates without changes to data or PIDs. The system responds to user with a warning message stating the reason for denial and possible further steps (try again later, renew ticket, upload new data)
   2. All restrictions match.
      1. The system performs the requested action (add or replace collection elements)
      2. The system modifies the PID information to record the performed action.