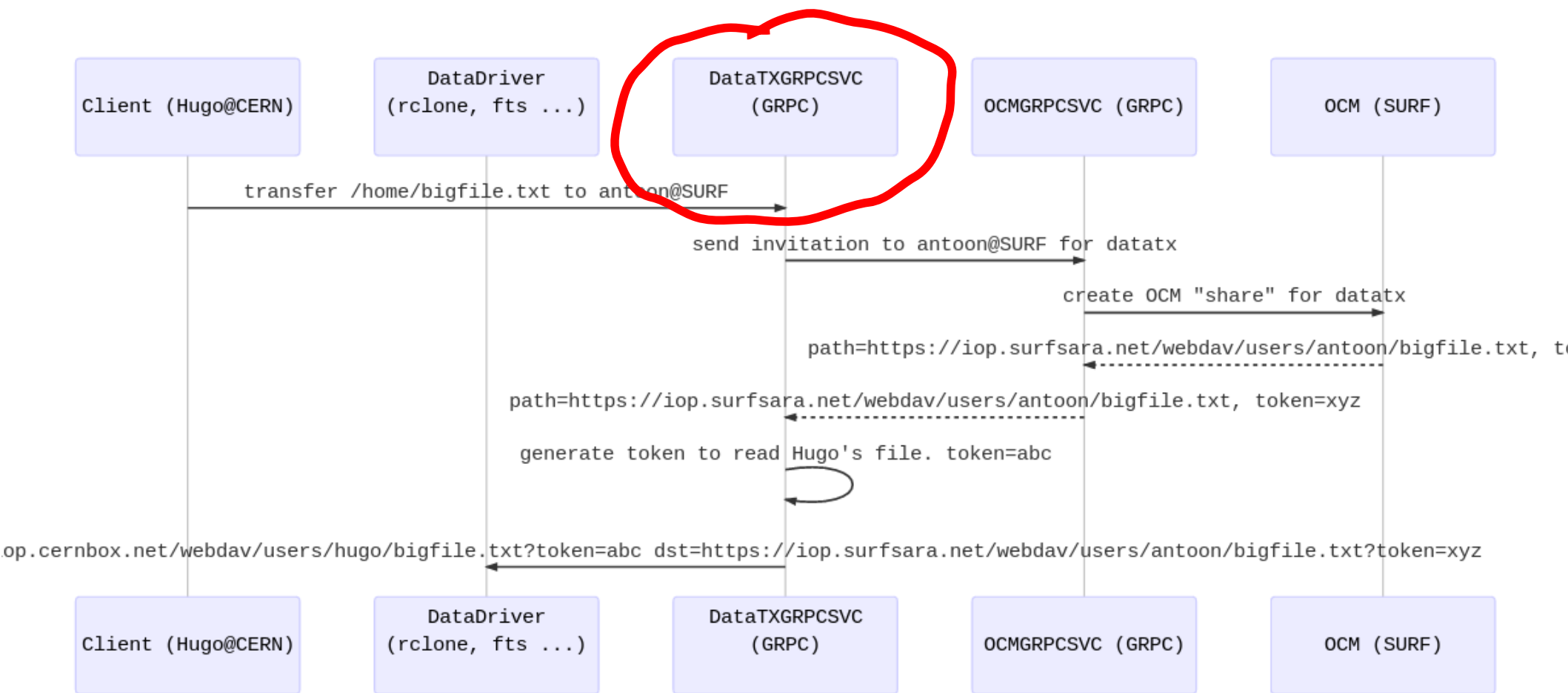


# DataTXGRPCSVC



# DataTXGRPCSVCSVC

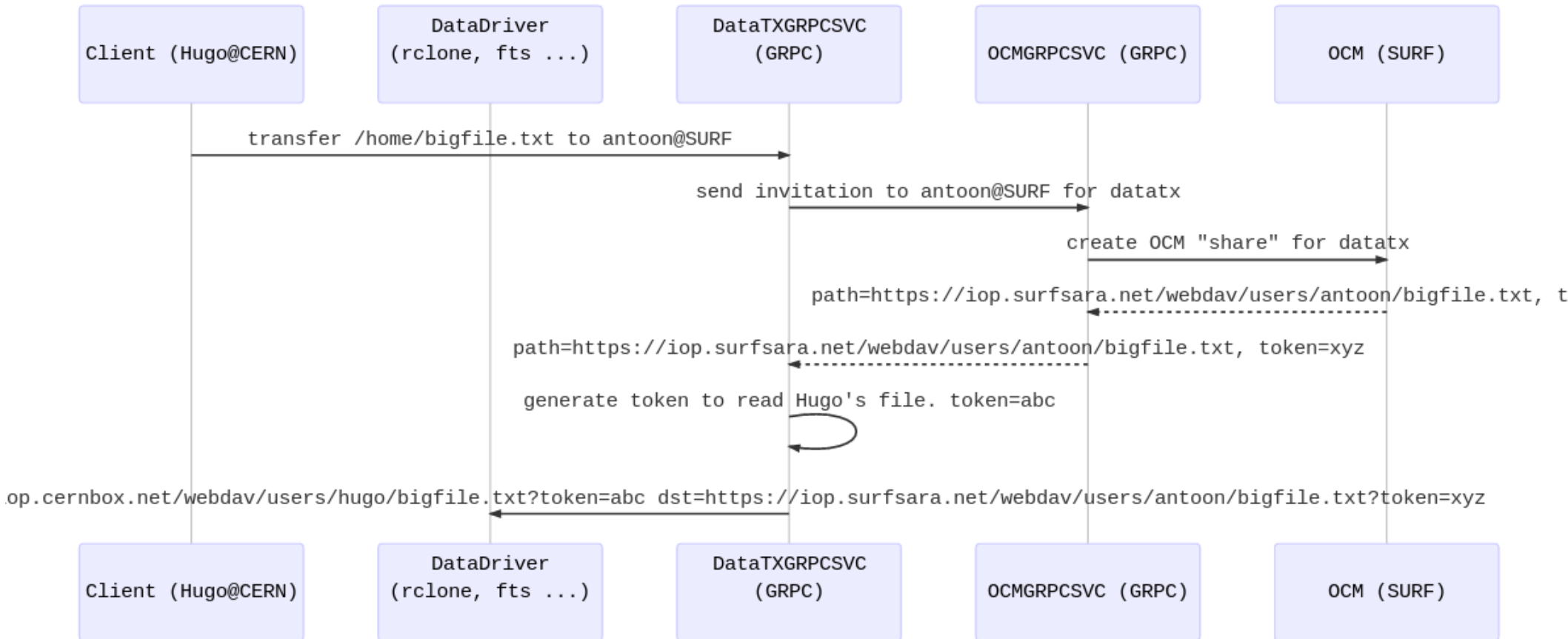
- Manages data transfers
- Data transfer mechanism agnostic
  - Specific stuff should go into the datadrivers



# DataTXGRPC SVC Flow

- Request comes in and input is validated
- If credential has been specified then  
do the transfer and we're done  
else  
send an invite

# DataTXGRPCSVC Flow



# DataTXGRPC SVC Flow

- If max waittime for invite acceptance has expired then  
delete the transfer
- If invite has been declined then  
delete the transfer

# DataTXGRPCSVCSVC

- Three functions (CS3API)
  - do\_transfer  
which does the stuff above
  - get\_status  
returns status of a transfer  
i.e. waiting\_for\_invite\_acceptance, finished,  
transfers\_in\_progress,....
  - destroy\_transfer

# DataTxGRPCSVC

```
1. do_transfer
  a. src (mandatory)
  b. dest (mandatory)
  c. info to create remotes (mandatory)
  d. credential (optional, can be left empty)

  returns
    i. transfer id
    ii. text (optional)
        1. error message

2. get_status
  a. transfer id

  returns
    i. status
        1. PENDING
        2. IN_PROGRESS
        3. FINISHED
        4. INVITE_NOT_ACCEPTED_ON_TIME
    ii. text (optional)
        1. error message

3. destroy_transfer
  a. transfer_id

  returns
    i. status
        1. OK
        2. NOTOK
    ii. text (optional)
        1. error message
```



# DataTXGRPCSVC

- Need to specify
  - max wait time for invite acceptance
  - max time that transfer is cached

# Open question

- On the client side it is possible to abort the transfer, but does the other side need to have this capability?
  - Revoke token?

# Some other thoughts

- Datadrivers need to implement the transfer mechanisms (rclone, filesender, fts, rucio) specific functions to assist do\_transfer, get\_status and destroy\_transfer
- DataTXGRPCSVCS can be generic