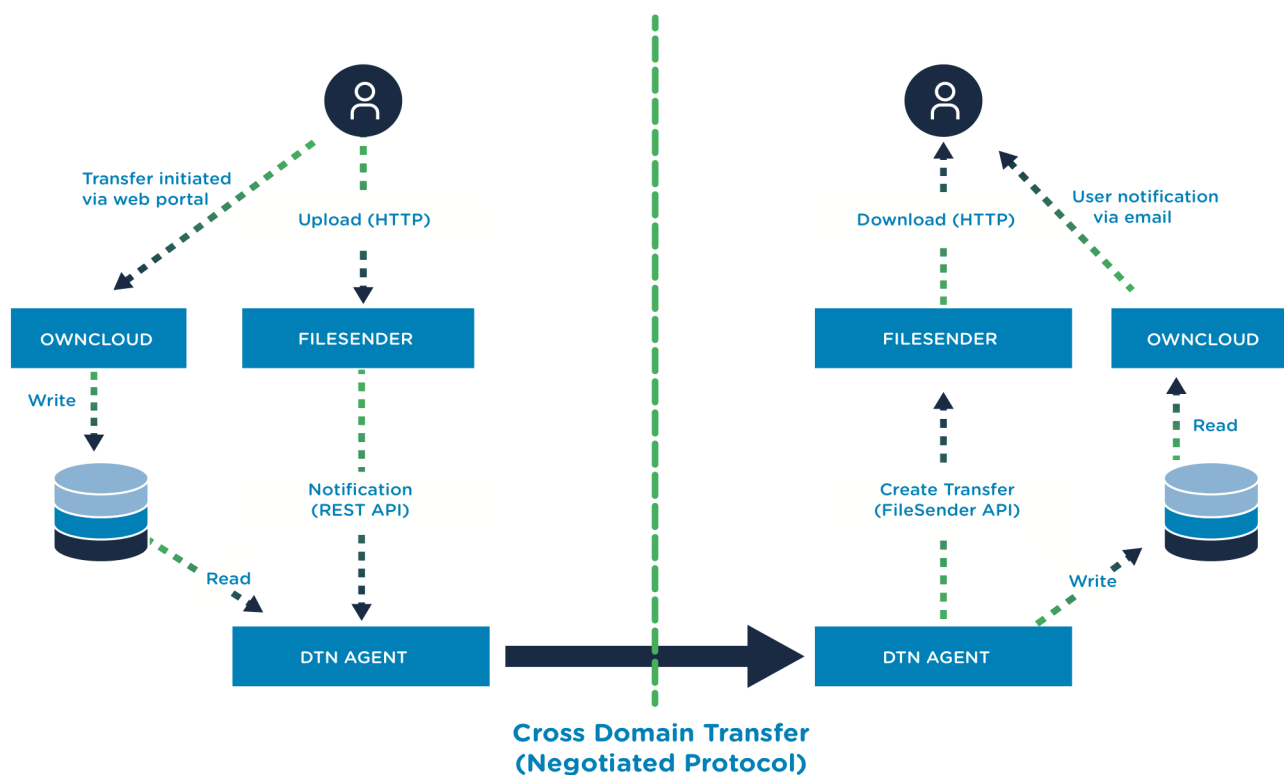


# Building User-friendly Data Transfer Nodes

## Accelerated Cross Domain Transfer



## Current Situation

Data Transfer Nodes (DTNs) are an existing solution that allow for fast and efficient transport of data over long distances. Use of DTNs still require expert knowledge about networks and system administration.

## Vision

DTNs will be part of Research Data Zones. These Data Zones provide researchers with data management, data preservation, and data sharing functionality. We envision a user-friendly interface to the users, while technical advanced features, including high-speed long-distance data transfer functions to other DTNs.

## Implementation

We build a proof-of-concept consisting of a DTN agent that adds an API on top of a data transfer tools (GridFTP), and an extension in both OwnCloud and FileSender that interfaces with this API. This way, users can use a familiar and easy-to-use webinterface to use high-speed long-distance data transfers.