

Project 1 WRITE Protocol

Client

Server

SUCMSHeader
{type = MSG_COMMAND,
msg_len= (length of data
not counting SUCMSHeader)
CommandMessage
{command=COMMAND_CREATE, ...}
SUCMSFileInfo {
filename_length=N,
filesize_bytes=(size of file),total_pieces=Y}}

SUCMSHeader + CommandMessage + username + SUCMSFileInfo + filename

SUCMSHeader
{type=MSG_COMMAND_RESPONSE, ...}
CommandResponse{result_id=X,
message_count=0,message_data_size=0,
response_code=(one of SUCMSCommandResponses),
...}

SUCMSHeader + CommandResponse

loop [for i in 0 to Y-1]

SUCMSHeader
{type = MSG_FILE_DATA,
msg_len= (length of data
not counting SUCMSHeader)
SUCMSClientFileData
{result_id=X,message_number=i,
username_len=(length of username),
filedata_length=(length of filedata),
filedata_offset=(offset of filedata in file)}}

SUCMSHeader + SUCMSClientFileData + username + filedata

SUCMSHeader + SUCMSFileDataResponse

SUCMSHeader{type=MSG_FILE_DATA_RESPONSE,...}
SUCMSFileDataResponse{result_id=X,message_number=i,
filedata_response_type=(one of SUCMSFileDataResponses)}