

Connection

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!## N send.sh
#on connection
php n.php > n
#through shared 'toomi'
cp n ../recieve/n

#with every voice chunk
soxi -s 00.wav > ms
cat n ms | minimodem --write 1200 -f key.wav
pad_len=$(( 75000 - $(soxi -s key.wav))
sox key.wav Nkey.wav pad 0 "$pad_len"s
sox Nkey.wav 00.wav L.wav

#cleaning
rm Nkey.wav
rm key.wav
rm ms

#through light
cp L.wav ../recieve/L.wav

!## N recieve.sh
#from lights
sox L.wav checkKey.wav trim 0 75000s

#reading connection key
minimodem --read 1200 -f checkKey.wav > checkKey

#reading voice chunk
sox L.wav 00.wav trim 75000s

#only if both key and length of chunk match
if [ "$(php check.php)" != "$(soxi -s 00.wav)" ] ; then
    rm 00.wav
else
    play 00.wav
fi

#cleaning
rm checkKey.wav
rm checkKey

!## n.php
<?php
    echo(hash('sha512', random_bytes(512) . microtime()) . microtime());
?>

!## check.php
<?php
    $key = file_get_contents('checkKey');
    $n = file_get_contents('n');
    if (substr($key,0,strlen($n))== $n) echo substr($key,strlen($n),null);
?>
```