

maidsafe IOU Management

IOU\_Orig\_Creator:vault

Client\_buffer\_packet:vault

Vault To:vault

RefHolder To:vault

IOU Store (kad):vault

Creating an IOU

create KAD packet

IOU\_ID (SPACE:SERIAL)

Keep list of SPACE:SERIAL:TTL  
to find kad keys (and values)  
Kept in Data Atlas / delete used  
IOU's as they happen

Kad key is  
#####  
[PMID(owner-pmid);SPACE:SERIAL#  
#####  
Kad value is  
#####  
[PMID(owner-pmid);PMID(current-holder);PMID (last);SPACE:SERIAL#:TTL:Valid]  
(Signed by last holder)(signed by current holder)  
#####  
for initial value last and current are same PMID

Passing an IOU between vaults

Agree to do action (STORE\_CHUNK)

Give me data (I will cache it)

Pass IOU used signed message IOU used

If refholder fails to deliver the signed IOU xfer  
the vault can ask the original node for it  
again. Should not be an issue though as it will exist in  
K refholders

Got valid IOU used message

Add me to reference

Here is signed IOU used message

Move chunk from cache to store

Here is IOU used and Valid messages

Updated IOU Store